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WATER SUPPLY OUTLOOK FOR OREGON

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U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

OREGON STATE UNIVERSITY and STATE ENGINEER of OREGON

AS OF
FEB. 1, 1974

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

Cover Photo: Snow Surveyors near Ship Creek, Alaska snow course.

SCS PHOTO A-272-11

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 511 N. W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P.O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia

USDA SCS PORTLAND, OREG 1973

WATER SUPPLY OUTLOOK FOR OREGON

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued

FEBRUARY 8, 1974

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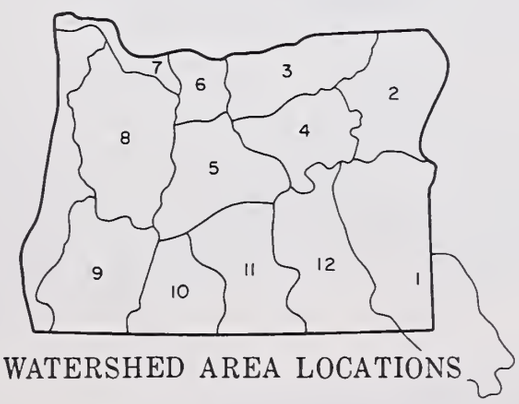

WATERSHED AREA LOCATIONS

WATER SUPPLY PROSPECTS FOR OREGON

Spring and Summer Period

FEBRUARY 1, 1974

U. S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

WATER SUPPLY PROSPECTS

- Much Above Average
- Above Average
- Near Average
- Below Average
- Much Below Average
- Not Forecast

SCALE IN MILES 20 0 20 40 60

Umatilla, Walla Walla, Willow, Rock, Lower John Day

Hood, Mile Creeks, Lower Deschutes

Burnt, Powder, Pine, Grande Ronde, Imnaha

Willamette

Upper John Day

Upper Deschutes, Crooked

Lake County, Goose Lake

Owyhee, Malheur

Rogue, Umpqua

Harney Basin

Klamath

PACIFIC OCEAN

WASHINGTON

OREGON

CALIFORNIA

NEVADA

IDAHO

COLUMBIA RIVER

Lower Columbia

PORTLAND

CLATSOP COLUMBIA WASHINGTON MULTNOMAH TILLAMOOK YAMHILL CLACKAMAS POLK MARION LINCOLN BENTON LINN JEFFERSON WHEELER GRANT DESCHUTES CROOK LANE COOS DOUGLAS CURRY JOSEPHINE JACKSON KLAMATH LAKE HARNEY MALHEUR UNION WALLOWA BAKER SHERMAN GILLIAM MORROW UMATILLA WASCO HOOD RIVER SISKIYOU MODOC WASHOE HUMBOLDT ELKO OWYHEE DEL NORTE

Hood R. Fivemile Cr. Fifteenmile Cr. Sandy R. Clackamas R. John Day River Willow Rock Cr. Umatilla River Walla Walla R. Grande Ronde River Imnaha River Powder River Pine Cr. Burnt River Willow Creek Malheur River Silver Creek Silvies River Malheur Lake Owyhee River Harney Lake Silver Lake Summer Lake Lake Abert Warner Lakes Alvord Lake Guano Lake Crater L. Upper Klamath L. Lower Klamath L. Goose Lake Drew Res. Trout Creek Mountain Cr. Williamson River Sprague R. Wood River Willamette River N. Santiam River S. Santiam River McKenzie River Mary's R. Middle Fork Coast Fork Umpqua River North Umpqua River Rogue River Deschutes River Crooked River

WATER SUPPLY OUTLOOK for OREGON

FEBRUARY 1, 1974

The water supply situation in Oregon is very good in most locations. The mountain snowpack is excellent and will provide good summer streamflow. Reservoirs are storing average to above average amounts of water and, in combination with the above average snowmelt runoff that is expected, will provide water users with their needs.

SNOW COVER

Last month's rains melted much of the low elevation snow in the state. A heavy snowpack still remains at the median and high elevations in all areas except southcentral Oregon. The snowpack is the third or fourth highest on record at many high elevation snow courses. The snow cover is generally 130 to 200% of average except for parts of Lake, Klamath and Harney Counties where it is slightly below average.

PRECIPITATION

Precipitation in the state was much above normal in all areas until last month. During January western Oregon continued to receive good to excellent amounts, while eastern Oregon received average to less than normal amounts. For the winter period, November through January, precipitation amounts varied from 120% of normal in southcentral Oregon up to 170% in the northern areas of the state.

SOIL MOISTURE

Soil moisture conditions in most areas are above average because of the excellent precipitation that has fallen.

RESERVOIR STORAGE

Most reservoirs are storing near normal to above average amounts of water for February 1. Twenty-four major irrigation reservoirs contained 2,160,000 acre feet of water on the first of February. This is 123% of normal.

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continued--

STREAMFLOW

Streamflow in Oregon for the winter period, November-January, has been excellent. Expected streamflows for the spring and summer period, April-September, will generally be average to much above average in all areas.

This report contains data furnished by the Oregon State Engineer, U. S. Geological Survey, NOAA National Weather Service, and other cooperators.

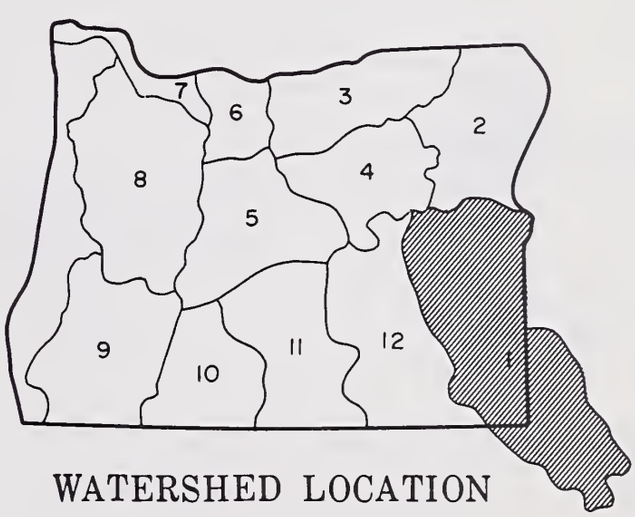
WATER SUPPLY OUTLOOK
OWYHEE, MALHEUR WATERSHEDS
OREGON
as of
FEBRUARY 1, 1974

GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK VARIES FROM AVERAGE TO EXCELLENT IN MALHEUR COUNTY. THE SNOWPACK IS MUCH ABOVE NORMAL EXCEPT FOR THE LOW ELEVATIONS WHERE MELT AND RUNOFF HAVE ALREADY OCCURRED. PRECIPITATION FOR THE WINTER PERIOD, NOVEMBER THROUGH JANUARY, HAS BEEN 130% OF AVERAGE. AS A RESULT SOIL MOISTURE CONDITIONS AND RESERVOIR STORAGE ARE BOTH GOOD. SPRING AND SUMMER RUNOFF VOLUMES ON MOST ALL STREAMS WILL BE AVERAGE TO ABOVE AVERAGE.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Boulder Creek	Excellent	Excellent
Bully Creek	Excellent	Average
Cow Creek	Average	Average
Jordan Creek	Excellent	Average
Jordan Valley Irrig. Dist.	Excellent	Average
McDermitt Creek	Average	Average
Oregon Canyon Creek	Excellent	Average
Owyhee Project	Excellent	Excellent
Succor Creek	Average	Average
Tenmile Creek	Average	Average
Vale-Oregon Irrig. Dist.	Average	Average
Warmsprings Irrig. Dist.	Average	Average
Willow Creek (Reservoired)	Excellent	Average



WATERSHED LOCATION

U.S.D.A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

Report prepared by
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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [i]
Bully Creek at Warmsprings	13.1	97	March-May		13.5 [m]
Malheur near Drewsey	157	143	Feb.-July		110
	106	147	Apr.-Sept.		72
Malheur, North Fork at Beulah [a]	110	138	Feb.-July		81
	81	126	Apr.-Sept.		64
Owyhee Reservoir net Inflow [k]	750	147	Feb.-July	378	510
	500	151	Apr.-Sept.	270	332

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Owyhee near Rome	1000	June 8	May 24
	250	June 29	June 20

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average
Antelope	70.0	11.0	- -	8.9 [m]
Beulah Reservoir	60.0	41.2	30.4	24.8
Bully Creek	30.0	21.7	11.8	15.0 [m]
Owyhee	715.0	510.8	566.5	407.9
Warmsprings	191.0	72.2	102.6	80.3

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	THIS YEAR'S MOISTURE as PERCENT OF: Average [i]
Malheur River	2	139	117
Owyhee River	3	109	91

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average [i]
Jordan Creek	3	205	140
Malheur River	5	160	135
Owyhee River	5	155	160

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (l) Ground measurement. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK

BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS

OREGON

as of

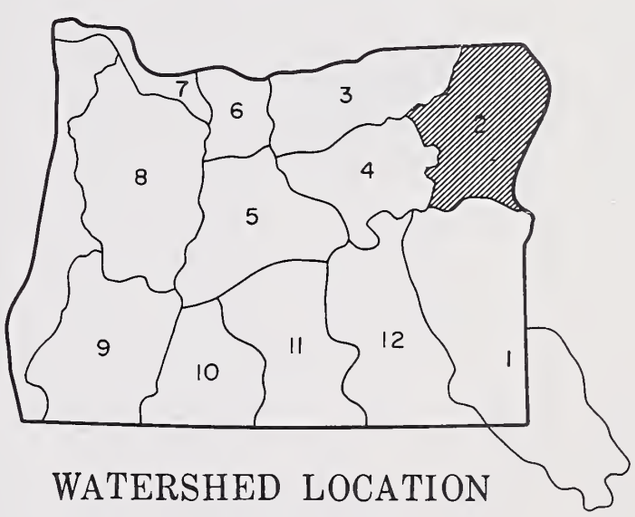
FEBRUARY 1, 1974

GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK IS EXCELLENT IN NORTHEASTERN OREGON. THE MOUNTAIN SNOW COVER IS 150 TO 170% OF NORMAL. PRECIPITATION FROM NOVEMBER TO FEBRUARY 1 HAS BEEN 150% OF AVERAGE. AS A RESULT SOIL MOISTURE CONDITIONS AND MOST RESERVOIR STORAGE IS GOOD. SPRING AND SUMMER STREAMFLOW VOLUMES WILL RANGE FROM 125% UP TO 180% OF AVERAGE.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Alder Slope	Excellent	Excellent
Baker Valley	Excellent	Excellent
Big Creek	Excellent	Excellent
Clover Cr. (nr. N. Powder)	Excellent	Excellent
Cove	Excellent	Excellent
Durkee	Excellent	Excellent
Eagle Valley	Excellent	Excellent
Elgin	Excellent	Excellent
Enterprise-Joseph	Excellent	Excellent
Hereford-Bridgeport	Excellent	Excellent
Imnaha River	Excellent	Excellent
LaGrande-Island City	Excellent	Excellent
Lostine-Wallowa	Excellent	Excellent
No. Powder River-Wolf Creek	Excellent	Excellent
Pine Valley	Excellent	Excellent
Powder River-Elk Creek	Excellent	Excellent
Summerville	Excellent	Excellent
Sumpter Valley	Excellent	Excellent
Union-Hot Lake	Excellent	Excellent
Unity	Excellent	Excellent



WATERSHED LOCATION

U.S.D.A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

Report prepared by
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1218 S.W. WASHINGTON ST.
PORTLAND, OREGON 97205

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average *i*
Bear near Wallowa	83	126	Apr.-Sept.		66
Burnt near Hereford [d]	75	156	Feb.-July		48
	60	180	Apr.-Sept.		33
Catherine near Union	82	126	Apr.-Sept.		65
Eagle Creek abv. Skull Creek	234	134	Apr.-July		175
	270	142	Apr.-Sept.		190
Grande Ronde at La Grande	304	154	Mar.-Sept.		197
	236	149	Apr.-Sept.		158
Hurricane near Joseph	57	121	Apr.-Sept.		47
Imnaha at Imnaha	400	130	Apr.-Sept.		307
Lostine near Lostine	159	127	Apr.-Sept.		125
Powder near Sumpter	82	149	Apr.-July		55
	86	153	Apr.-Sept.		56
Wallowa, East Fork near Joseph [d]	15.8	123	Feb.-Sept.		12.8
	14.1	124	Apr.-Sept.		11.4

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average *i*
Phillips Lake	73.5	29.9	51.9	- -
Thief Valley	17.4	17.4	17.4	16.4 [m]
Unity	25.2	16.3	10.7	10.7
Wallowa Lake	37.5	14.3	14.1	21.2

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average *i*
Burnt River	4	240	170
Grande Ronde River above La Grande	4	410	155
Powder River	5	190	155
Wallowa, Imnaha, Catherine Creek	6	205	155

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	THIS YEAR'S MOISTURE as PERCENT OF: Average *i*
Burnt, Powder	2	154	130
Grande Ronde, Catherine Creek, Imnaha River	3	114	110

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK

UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS

OREGON

as of

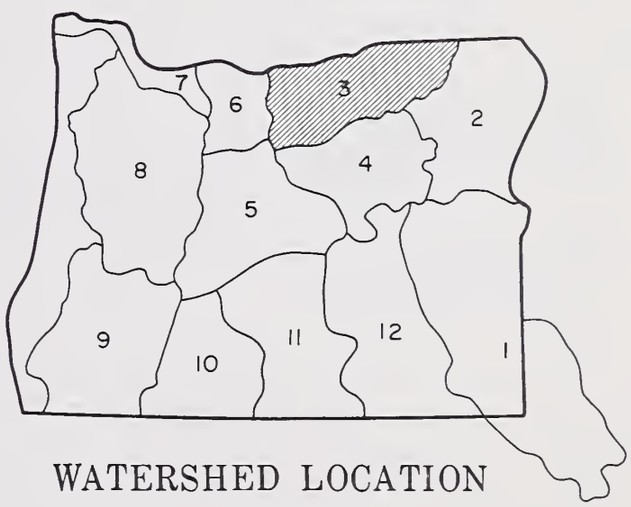
FEBRUARY 1, 1974

GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK FOR UMATILLA, MORROW, AND GILLIAM COUNTIES VARIES FROM AVERAGE TO EXCELLENT. THE MOUNTAIN SNOW COVER IS MUCH ABOVE NORMAL ON MOST WATERSHEDS. SOME LOW ELEVATION SNOW MELT AND RUNOFF HAS ALREADY OCCURRED. TOTAL PRECIPITATION (SNOWFALL AND RAIN) FOR THE NOVEMBER-JANUARY PERIOD HAS BEEN 170% OF NORMAL. AS A RESULT SOIL MOISTURE CONDITIONS AND RESERVOIR STORAGE ARE BOTH GOOD FOR THIS TIME OF YEAR. SPRING AND SUMMER STREAMFLOW VOLUMES WILL BE ABOVE AVERAGE.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Walla Walla River, No. Fork	Excellent	Average
Walla Walla River, So. Fork	Excellent	Average
Walla Walla River, Main	Excellent	Average
Walla Walla River, Little	Excellent	Excellent
Couse Creek	Excellent	Average
Dry Creek	Excellent	Average
Pine Creek	Excellent	Average
Umatilla River, Main	Excellent	Excellent
Wildhorse Creek	Excellent	Excellent
Umatilla R. (Cold Springs Reservoir)	Average	Average
Umatilla R. (McKay Res.)	Excellent	Excellent
McKay Creek	Excellent	Excellent
Birch Creek	Average	Average
Butter Creek	Excellent	Average
Willow Creek	Excellent	Average
Rhea Creek	Excellent	Average
Rock Creek (John Day Tributary)	Average	Average



WATERSHED LOCATION

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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average *i*
Birch Creek at Rieth	30	107	Feb.-July		28
	19.0	119	Apr.-Sept.		15.9
Butter Creek near Pine City	16.0	140	Mar.-July		11.4
McKay near Pilot Rock	31	129	Apr.-Sept.		24
Umatilla near Gibbon	120	124	Mar.-Sept.		97
	94	125	Apr.-Sept.		75
Umatilla at Pendleton	250	125	Mar.-Sept.		200
Walla Walla, South Fork near Milton	85	108	Mar.-Sept.		79
	73	111	Apr.-Sept.		66

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Umatilla at Pendleton	550	June 2	May 22

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average *i*
Cold Springs	50.0	30.8	21.4	31.2
McKay	73.8	51.6	19.3	31.0

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	THIS YEAR'S MOISTURE as PERCENT OF: Average *i*
Umatilla, Walla Walla, McKay Creek	3	109	99

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average *i*
McKay Creek	3	375	130
Umatilla River	3	525	190
Walla Walla River	2	465	205

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

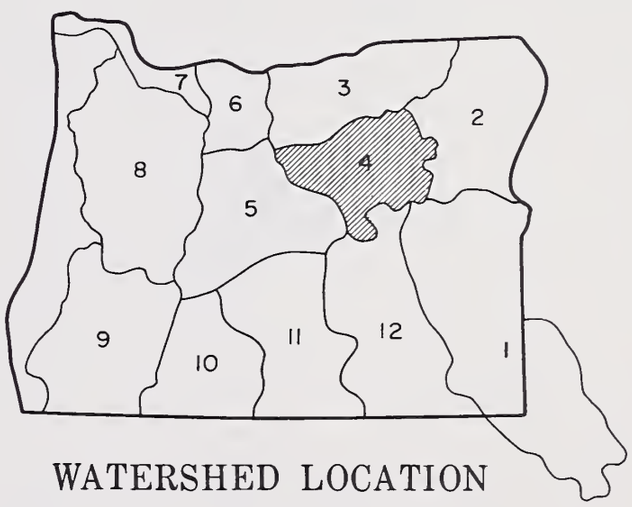
WATER SUPPLY OUTLOOK
UPPER JOHN DAY WATERSHEDS
OREGON
as of
FEBRUARY 1, 1974

GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK FOR MOST OF THE UPPER JOHN DAY WATERSHEDS IS EXCELLENT. THE MOUNTAIN SNOW COVER IS 145 TO 160% OF AVERAGE WITH SOME MELT AND RUNOFF HAVING ALREADY OCCURRED AT THE LOWER ELEVATIONS. PRECIPITATION DURING THE WINTER PERIOD, NOVEMBER-JANUARY, HAS BEEN 170% OF NORMAL. AS A RESULT SOIL MOISTURE CONDITIONS ARE GOOD AND SPRING AND SUMMER STREAMFLOW VOLUMES WILL BE ABOVE AVERAGE.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Beech Creek	Average	Average
Beech Creek-Fox-Long Crs.	Average	Average
Bridge-Mountain Creeks	Excellent	Average
Camas Creek	Average	Average
Cherry Creek	Average	Average
Indian-Pine Creeks	Excellent	Excellent
John Day River, Main Fork	Excellent	Excellent
John Day River, Mid. Fork	Excellent	Excellent
John Day River, N. Fork	Excellent	Excellent
John Day River, S. Fork	Excellent	Excellent
Monument-Kimberly	Excellent	Excellent
Strawberry Creek	Excellent	Excellent



WATERSHED LOCATION

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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [i]
Camas Creek near Ukiah	45	105	Mar.-July		43
	37	112	Apr.-Sept.		33
John Day, Middle Fork at Ritter	226	175	Mar.-July		129
	187	170	Apr.-Sept.		108
John Day, North Fork at Monument	1033	160	Mar.-July		646
	870	161	Apr.-Sept.		540
Strawberry near Prairie City	9.6	133	Mar.-July		7.2
	9.7	128	Apr.-Sept.		7.6

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	THIS YEAR'S MOISTURE as PERCENT OF: Average [i]
John Day, North Fork	2	127	120

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average [i]
John Day, North Fork	7	240	160
John Day abv. Dayville	5	195	145

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK

UPPER DESCHUTES, CROOKED WATERSHEDS

OREGON

as of

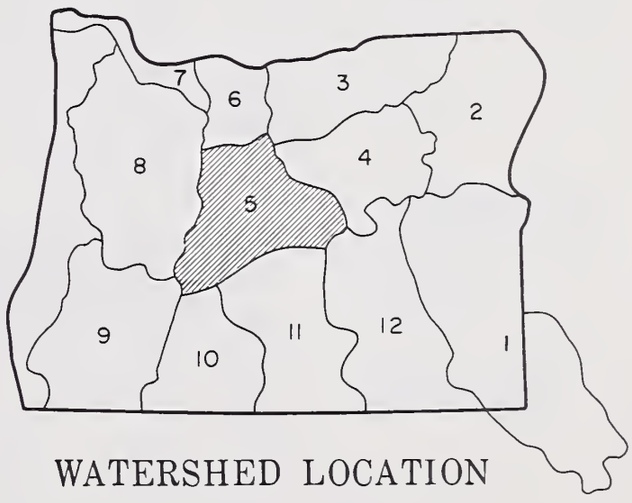
FEBRUARY 1, 1974

GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK FOR THE UPPER DESCHUTES WATERSHED VARIES FROM AVERAGE TO EXCELLENT. THE SNOW COVER IS ABOVE AVERAGE ON ALL WATERSHEDS WITH SOME LOW ELEVATION MELT AND RUNOFF HAVING ALREADY OCCURRED. PRECIPITATION FOR THE NOVEMBER-JANUARY PERIOD HAS BEEN 125% OF NORMAL. AS A RESULT SOIL MOISTURE CONDITIONS AND RESERVOIR STORAGE IS GOOD. SPRING AND SUMMER SNOWMELT RUNOFF VOLUMES ARE EXPECTED TO BE ABOVE AVERAGE.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Arnold Irrigation Dist.	Excellent	Average
Bear Creek	Excellent	Excellent
Beaver Creek	Excellent	Excellent
Camp Creek	Average	Average
Central Ore. Irrig. Dist.	Excellent	Average
Crooked River	Excellent	Average
Deschutes River	Excellent	Excellent
Hay-Trout Creeks	Average	Average
Lone Pine Irrig. Dist.	Excellent	Excellent
Mill Creek	Excellent	Average
North Unit Irrigation Dist.	Average	Average
Ochoco Creek	Excellent	Excellent
Sisters Irrigation Dist.	Excellent	Excellent
Squaw Creek Irrig. Dist.	Excellent	Excellent
Swalley Ditch	Excellent	Excellent
Tumalo Project	Excellent	Average
Walker Basin Irrig. Dist.	Excellent	Average



WATERSHED LOCATION

U.S.D.A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

Report prepared by
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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average i
Beaver Creek near Paulina	60	146	Feb.-July		41
	22	138	Apr.-Sept.		16.0
Crane Prairie Reservoir total Inflow	160	134	Apr.-Sept.		119
Crescent at Crescent Lake [d]	27	128	Mar.-July		21
	28	133	Apr.-Sept.		22
Crooked near Post	200	116	Feb.-July		172
	111	122	Apr.-Sept.		91
Deschutes at Benham Falls [d]	411	114	Apr.-July		360
	607	110	Apr.-Sept.		550
Deschutes below Snow Creek	100	135	Feb.-Sept.		74
	90	145	Apr.-Sept.		62
Deschutes, Little near La Pine [d]	160	157	Feb.-July		102
	140	141	Apr.-Sept.		99
Ochoco Reservoir net Inflow	50	147	Feb.-July		34
	25	133	Apr.-Sept.		18.8
Odell near Crescent	35	125	Apr.-Sept.		28
Squaw near Sisters	59	118	Apr.-Sept.		50
Tumalo near Bend [d]	53	115	Apr.-Sept.		46

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Crane Prairie net Inflow	300	*	July 15
Crooked R. near Post	100	June 6	June 1
Deschutes at Bend	1500	*	July 1
Little Deschutes near La Pine	400	June 19	June 7
	200	July 22	July 8

*Issued on April 1.

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average i
Crane Prairie	55.3	37.5	53.1	42.1
Crescent Lake	86.9	75.9	81.7	45.9
Ochoco	47.5	31.1	26.2	21.2
Prineville	153.0	92.2	108.8	102.4 [m]
Wickiup	200.0	135.6	185.4	148.5

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	THIS YEAR'S MOISTURE as PERCENT OF: Average i
Crooked R., Upper Deschutes River	3	134	113

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average i
Crooked, Ochoco	4	230	145
Deschutes abv. Wickiup	3	210	150
Little Deschutes	4	240	145
Tumalo & Squaw Crs.	3	225	120

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK

HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS

OREGON

as of

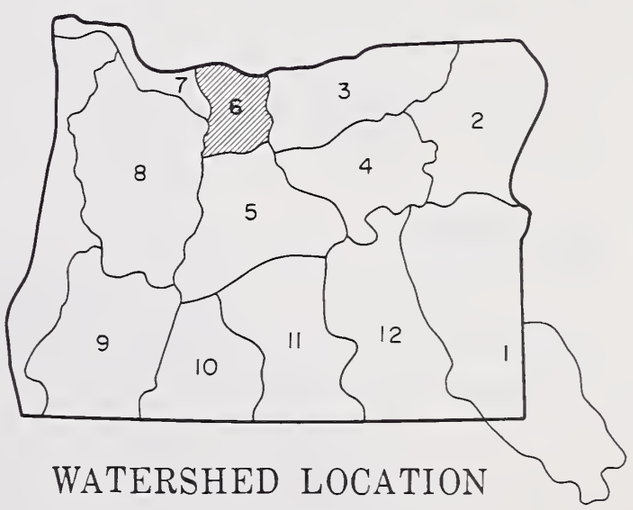
FEBRUARY 1, 1974

GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK FOR THE HOOD RIVER WATERSHEDS IS MOSTLY EXCELLENT. THE SNOW COVER IS 160 TO 170% OF AVERAGE. PRECIPITATION FOR THE WINTER PERIOD, NOVEMBER-JANUARY, HAS BEEN 160% OF NORMAL. AS A RESULT SOIL MOISTURE CONDITIONS ARE GOOD. SPRING AND SUMMER STREAMFLOW VOLUMES SHOULD BE MUCH ABOVE AVERAGE.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Aldridge Ditch (Tony Creek)	Excellent	Excellent
Badger Creek	Excellent	Excellent
Dee Irrigation Dist.	Excellent	Excellent
East Fork Irrig. Dist.	Average	Average
Farmers Irrigation Dist.	Average	Average
Hood River Irrig. Dist.	Average	Average
Juniper Flat	Excellent	Excellent
Middle Fork Irrig. Dist.	Excellent	Excellent
Mile Creeks	Excellent	Excellent
Mill Creek	Average	Average
Mount Hood Irrig. Dist.	Excellent	Excellent
Rock-Gate-Threemile Crs.	Excellent	Excellent
Tygh Creek	Excellent	Excellent
White River	Excellent	Excellent



WATERSHED LOCATION

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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [1]
Hood River near Tucker Bridge	336	117	Apr.-July		286
	405	122	Apr.-Sept.		332
Hood, West Fork near Dee	151	114	Apr.-July		132
	180	117	Apr.-Sept.		154
White below Tygh Valley	174	147	Apr.-July		118
	199	150	Apr.-Sept.		133

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Clear Branch Inflow	*50	July 15-31	**39

*Average cfs forecast to flow for this two-week period.

**Average cfs for period of record.

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average [1]
Clear Lake (Wasco)	11.9	3.5	7.5	2.2

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	THIS YEAR'S MOISTURE as PERCENT OF: Average [1]
Hood River, Mile Creeks	1	100	-

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average [1]
Hood River	6	395	160
Mile Creeks	-	-	-
White River	3	385	170

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72 adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

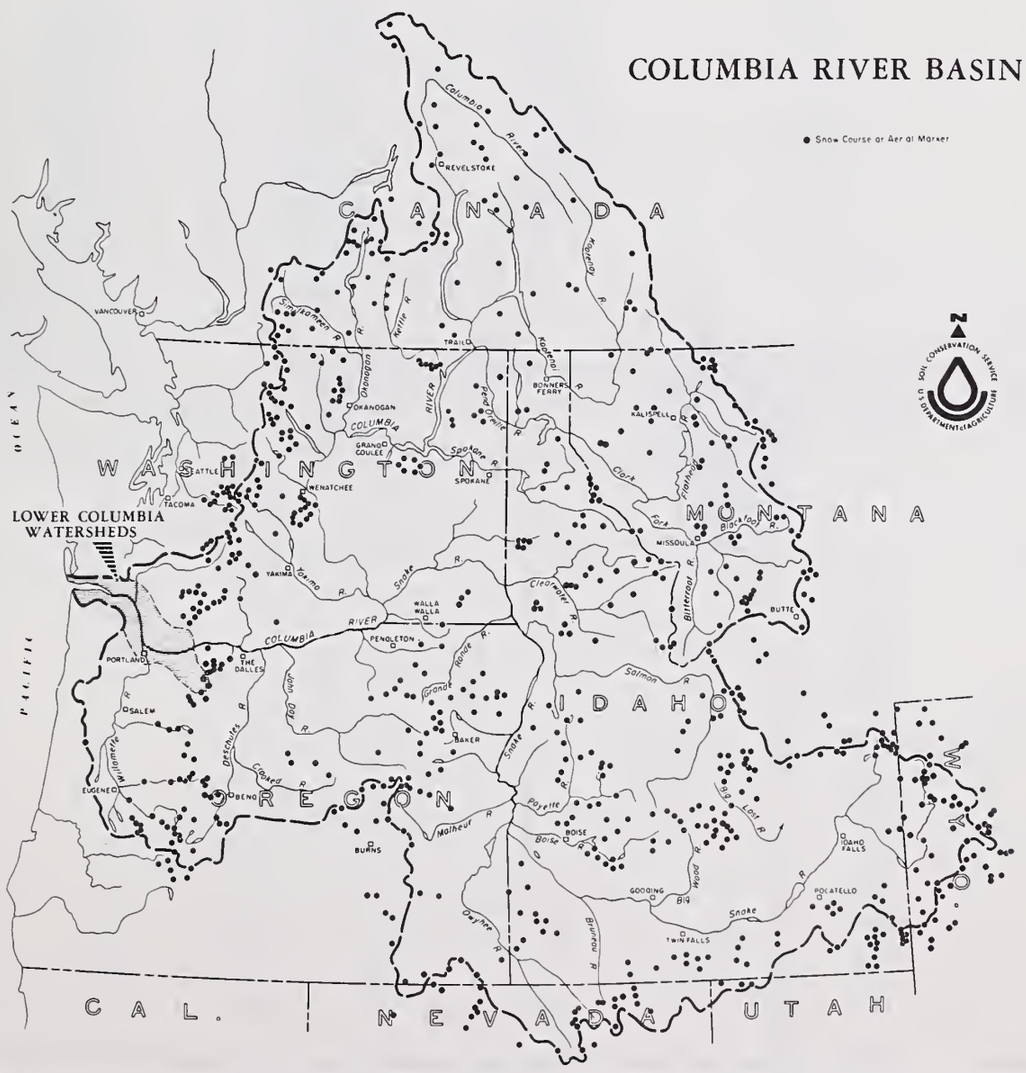
WATER SUPPLY OUTLOOK
LOWER COLUMBIA WATERSHEDS
OREGON

as of

FEBRUARY 1, 1974

GENERAL OUTLOOK

ABOVE AVERAGE WATER SUPPLIES ARE FORECAST FOR THE LOWER COLUMBIA WATERSHEDS. THE SNOW COVER IN THE ENTIRE COLUMBIA BASIN IS WELL ABOVE AVERAGE IN MOST AREAS. IT RANGES FROM 110% TO 120% IN THE UPPER COLUMBIA IN BRITISH COLUMBIA, MONTANA, PARTS OF WYOMING, AND IDAHO, AND ON UP TO 140-190% IN OREGON AND PARTS OF WASHINGTON AND IDAHO. SOIL MOISTURE IS ABOVE AVERAGE AT ALL ELEVATIONS IN ESSENTIALLY THE ENTIRE BASIN. RESERVOIR STORAGE IS WELL ABOVE AVERAGE IN ALL PORTIONS OF THE BASIN EXCEPT IN WASHINGTON WHERE IT IS 76% OF NORMAL. WASHINGTON RESERVOIRS ARE EXPECTED TO FILL. EXPECTED SPRING AND SUMMER STREAMFLOW IN THE BASIN RANGES FROM 105 TO 150% OF AVERAGE.



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SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average[i]
Sandy River	2	365	170

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average[i]
Columbia at The Dalles[d]	85,000	117	Apr.-June		72,406*
	120,000	115	Apr.-Sept.		105,176*
Sandy River near Marmot	406	119	Apr.-July		342
	461	116	Apr.-Sept.		398

*1953-67 Average.

HISTORICAL DATA (Columbia River at The Dalles)

YEAR	STREAMFLOW[d] (1,000 A.F.)			PEAK[e] (1,000 c.f.s)	DATE
	APR. — SEPT.	APR. — JUNE	MAY — JUNE		
1953	100,600	64,900	55,800	609	June 17
1954	119,500	70,500	59,300	561	May 23
1955	99,500	58,300	50,300	545	June 26
1956	131,400	96,900	75,800	815	June 3
1957	105,700	80,500	67,200	700	May 22
1958	97,700	72,000	58,600	593	May 31
1959	112,500	71,900	58,900	555	June 23
1960	97,000	64,000	48,000	442	June 6
1961	101,400	74,400	64,000	699	June 8
1962	94,600	64,100	49,200	460	June 5
1963	87,000	56,300	46,200	437	June 18
1964	109,020	70,739	61,313	662	June 18
1965	114,137	80,024	62,477	520	June 9
1966	87,268	58,120	45,922	396	June 12
1967	107,771	72,408	65,112	622	June 10
1953-67 Avg.	105,181	72,408	59,689	574	

LOWER COLUMBIA RIVER FLOOD STAGES (with 9.5' tide at Astoria)

VANCOUVER GAGE (Weather Bu.)	FLOW AT THE DALLES (1,000 c.f.s)	DRAINAGE DISTRICT PUMPHOUSE						
		SANDY	SAUVIE ISL.	SCAPPOOSE	DEER ISL.	RAINIER	BEAVER	WOODSON
		RIVER MILES						
		118.9	96.0	91.0	77.0	62.0	52.0	47.0
35 (1894)	1210	41.2	34.2	33.3	28.5	21.9	17.5	15.5
34	1160	40.5	33.5	32.5	27.7	21.2	17.0	15.0
33	1100	39.6	32.4	31.4	26.7	20.2	16.1	14.3
32	1050	38.9	31.5	30.5	25.7	19.5	15.4	13.7
31 (1948)	1000	38.0	30.7	29.5	25.1	18.8	14.7	13.0
30	943	36.6	29.5	28.5	24.3	18.1	14.0	12.4
29	897	35.5	28.5	27.7	23.7	17.5	13.4	11.8
28	853	34.3	27.5	26.7	22.8	17.0	13.0	11.4
27 (1956)	811	33.0	26.5	25.6	21.8	16.2	12.5	11.0
26 (1950)	771	32.1	25.5	24.6	20.9	15.5	12.2	10.7
25	733	30.7	24.2	23.2	19.7	14.6	11.7	10.3
24	697	29.7	23.0	22.2	19.0	14.1	11.4	10.2
23	662	29.0	22.3	21.4	18.4	13.6	11.2	10.0
22	628	28.1	21.4	20.3	17.2	13.0	10.9	9.7
21	595	27.2	20.7	19.5	16.4	12.6	10.6	9.6
20 (1954)	564	26.2	19.8	18.6	15.5	12.1	10.2	9.4
19	534	25.5	19.2	18.0	15.0	11.8	10.0	9.3
18	501	24.4	18.3	17.2	14.3	11.4	9.8	9.1
17	479	23.4	17.4	16.4	13.7	11.0	9.6	8.9
16	452	22.4	16.5	15.5	13.0	10.5	9.3	8.7

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records.

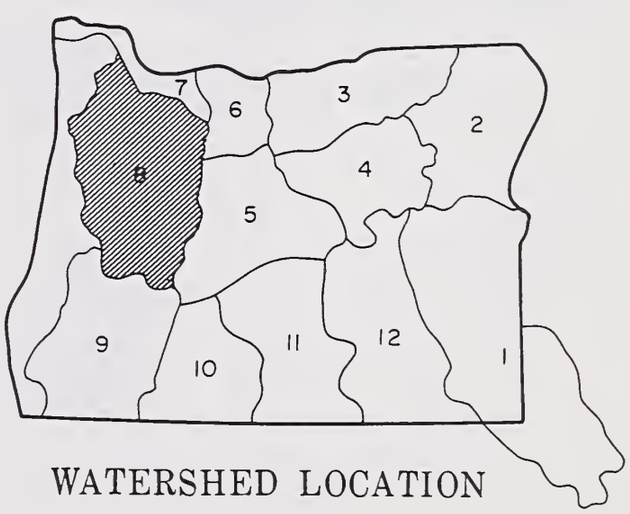
WATER SUPPLY OUTLOOK
WILLAMETTE WATERSHEDS
OREGON
as of
FEBRUARY 1, 1974

GENERAL OUTLOOK

ABOVE AVERAGE WATER SUPPLIES ARE FORECAST FOR THE WILLAMETTE WATERSHEDS DURING THE 1974 SEASON. THE SNOWPACK IN THE HIGHER ELEVATIONS AVERAGES 1 1/2 TIMES NORMAL THROUGHOUT THE BASIN. WARM TEMPERATURES AND ABOVE AVERAGE PRECIPITATION DURING JANUARY CAUSED MUCH OF THE SNOW IN THE LOWER ELEVATIONS TO RUN OFF WITH ASSOCIATED FLOODING IN SOME OF THE TRIBUTARIES. THE FLOW OF THE MIDDLE FORK OF THE WILLAMETTE WAS 174 PERCENT OF NORMAL DURING JANUARY AND POWER RESERVOIRS WERE BEING HELD SLIGHTLY BELOW THE AVERAGE LEVEL.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Calapooya	Average	Average
Clackamas	Average	Average
McKenzie	Average	Average
Molalla	Average	Average
Santiam, North	Average	Average
Santiam, South	Average	Average
Willamette, Coast Fork	Average	Average
Willamette, Middle Fork	Average	Average



WATERSHED LOCATION

U.S.D.A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [i]
Clackamas at Estacada	764	113	Apr.-July		674
	878	111	Apr.-Sept.		789
Clackamas above Three Lynx	569	112	Apr.-July		506
	665	110	Apr.-Sept.		604
McKenzie at McKenzie Bridge	528	116	Apr.-July		453
	692	116	Apr.-Sept.		598
McKenzie near Vida	1220	118	Apr.-July		1035
	1476	117	Apr.-Sept.		1262
McKenzie, So. Fork near Rainbow [d]	241	115	Apr.-July		210
	273	114	Apr.-Sept.		239
Oak Grove Fork above Power Intake	145	118	Apr.-July		123
	187	115	Apr.-Sept.		162
Row near Dorena	120	122	Apr.-July		98
	124	122	Apr.-Sept.		102
Santiam, North at Mehama [d]	830	108	Apr.-July		765
	944	108	Apr.-Sept.		872
Santiam, South at Waterloo [d]	616	109	Apr.-July		564
	657	105	Apr.-Sept.		623
Willamette, Mid. Fk. blw. N. Fk. nr. Oakridge	802	118	Apr.-July		678
	909	117	Apr.-Sept.		779
Willamette, No. Fk. of Mid. Fk. near Oakridge	204	108	Apr.-July		189
	226	108	Apr.-Sept.		209
Willamette at Salem [d]	5111	116	Apr.-July		4397
	5624	114	Apr.-Sept.		4943

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average [i]
Clackamas River	2	635	155
McKenzie River	3	255	130
Row River	2	375	160
Santiam River	4	385	145
Willamette, Mid. Fk.	5	260	145

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average [i]
Blue River	85.6*	10.4	8.1	- -
Cottage Grove	30.0*	1.2	3.0	3.9
Cougar	155.2*	24.0	4.1	34.2 [m]
Detroit	299.9*	63.4	24.0	60.0
Dorena	70.5*	8.1	6.8	15.3
Fall Creek	115.0*	12.0	7.4	25.4 [m]
Fern Ridge	94.2*	21.6	13.2	24.8
Foster	30.0*	0.2	1.7	2.1 [m]
Green Peter	270.0*	62.7	27.6	73.3 [m]
Hills Creek	200.0*	46.6	18.1	38.3 [m]
Lookout Point	337.2*	63.1	14.1	64.8
Timothy Lake	61.7	59.7	51.3	49.9

*Multiple purpose reservoir--space reserved primarily for flood runoff.

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

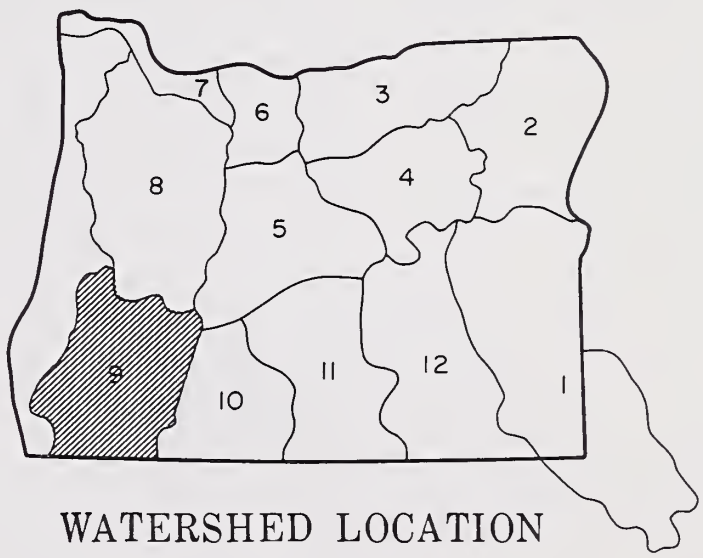
WATER SUPPLY OUTLOOK
ROGUE, UMPQUA, WATERSHEDS
OREGON
as of
FEBRUARY 1, 1974

GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK FOR THE ROGUE, UMPQUA WATERSHEDS VARIES FROM BELOW AVERAGE IN THE SOUTHWESTERN PORTION TO ABOVE AVERAGE ON THE EASTERN SIDE. USERS OF STORED WATER SHOULD HAVE ADEQUATE SUPPLIES WITH ALL RESERVOIRS STORING ABOVE AVERAGE AMOUNTS EXCEPT FOURMILE LAKE. EXCEPT FOR THE ILLINOIS RIVER BASIN AT 55 PERCENT OF NORMAL, THE SNOWPACK IS CONSIDERABLY ABOVE AVERAGE WITH AS MUCH AS 220 PERCENT OF NORMAL IN THE BEAR CREEK WATERSHED. PRECIPITATION FOR JANUARY WAS 141 PER CENT OF NORMAL.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Althouse Creek	Fair	Fair
Applegate River, Big	Average	Average
Applegate River, Little	Average	Average
Ashland Creek	Excellent	Excellent
Butte Creek, Big	Average	Average
Butte Creek, Little	Average	Average
Cow Creek	Fair	Fair
Deer Creek	Fair	Fair
Elk Creek	Average	Average
Emigrant Creek (abv. Res.)	Average	Average
Evans Creek	Fair	Fair
Gold Hill Irrigation Dist.	Average	Average
Grants Pass Irrig. Dist.	Average	Average
Grave Creek	Fair	Fair
Illinois River, East Fork	Fair	Fair
Illinois River, West Fork	Fair	Fair
Jump-off-Joe Creek	Fair	Fair
Neil Creek	Average	Average
Red Blanket Creek	Excellent	Average
Rogue River	Average	Average
Sucker Creek	Fair	Fair
Table Rock Irrig. Dist.	Average	Fair
Thompson Creek	Average	Fair
Wagner Creek	Excellent	Excellent
Williams Creek	Average	Fair



WATERSHED LOCATION

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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average i
Applegate near Copper	147	110	Apr.-Sept.		133
Clearwater above Trap Creek	76	110	Apr.-Sept.		69
Fourmile Lake net Inflow	4.9	114	Apr.-Sept.		4.3
Hyatt Reservoir net Inflow	4.9	107	Apr.-July		4.6
Illinois River near Kerby	158	83	Apr.-July		191
	164	83	Apr.-Sept.		197
Little Butte, N. Fk. at Fish Lake nr. Lake Cr.	15.8	115	Apr.-Sept.		13.7
Little Butte, S. Fk. near Lake Creek	34	121	Apr.-July		28
Rogue above Prospect	275	107	Apr.-July		256
Rogue, South Fork near Prospect	63	103	Apr.-July		61
	74	103	Apr.-Sept.		72
Rogue at Raygold near Central Point	786	107	Apr.-July		735
	957	108	Apr.-Sept.		890
Rogue at Grants Pass	860	96	Apr.-Sept.		890
Umpqua, No. blw. Lemolo Res. nr. Toketee Falls	207	125	Apr.-Sept.		166

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Little Butte Creek, South Fork	100	May 27	May 27
Rogue at Raygold	1200	Sept. 17	Aug. 7

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average i
Emigrant Lake	39.0	29.6	22.1	23.1*
Fish Lake	8.0	4.8	8.0	5.3
Fourmile Lake	16.1	7.0	11.1	8.6
Howard Prairie	60.0	57.8	43.8	36.5[m]
Hyatt Prairie	16.1	13.6	9.1	10.5

*Average for years of record (in base period) after reconstruction.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average i
Applegate	3	215	120
Bear Creek	2	125	220
Butte Creek	4	135	110
Illinois River	3	85	55
North Umpqua	3	295	155
Rogue River	6	175	130

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72 adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK
KLAMATH WATERSHEDS
OREGON
as of

FEBRUARY 1, 1974

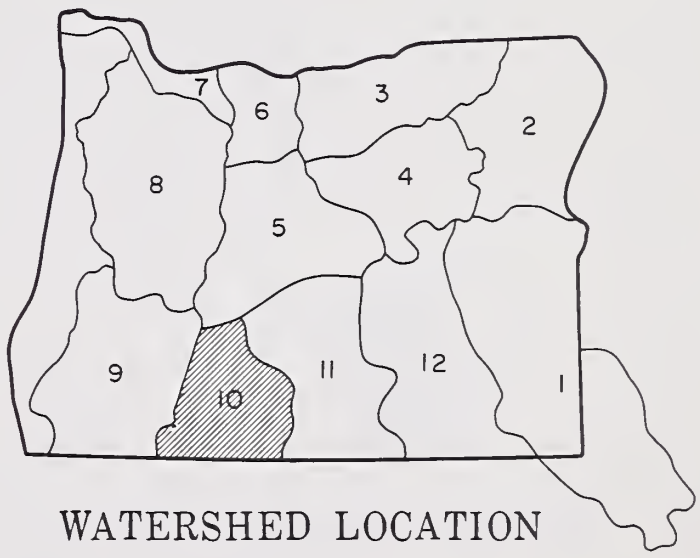
GENERAL OUTLOOK

AN AVERAGE WATER SUPPLY WILL BE AVAILABLE TO KLAMATH COUNTY WATER USERS NEXT SPRING AND SUMMER. THE SNOWPACK REMAINS ABOUT AVERAGE IN SPITE OF THE FACT THAT MOST OF THE SNOW IS GONE FROM THE LOWER ELEVATIONS. NEAR AVERAGE PRECIPITATION DURING JANUARY MAINTAINED ABOVE AVERAGE RESERVOIR STORAGE AND HIGH SOIL MOISTURE SUPPLY. KLAMATH LAKE INFLOW INCREASED TO 168 PERCENT OF NORMAL DURING JANUARY.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Ft. Klamath Valley	Average	Average
Lost River (Clear Lake)	Average	Average
Lost River (Gerber)	Average	Average
Lost River (Willow Res.)	Average	Average
Sprague River	Fair	Fair
Upper Klamath Lake	Average	Average
Williamson River	Average	Average



WATERSHED LOCATION

U.S.D.A. SOIL CONSERVATION SERVICE
OREGON STATE UNIVERSITY.....OREGON STATE ENGINEER

Report prepared by
T.A. GEORGE and J.W. HAGLUND
SOIL CONSERVATION SERVICE
1218 S.W. WASHINGTON ST.
PORTLAND, OREGON 97205

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [i]
Clear Lake Reservoir Inflow	97	105	Feb.-July		92
Gerber Reservoir Inflow	45	105	Feb.-July		43
Sprague near Chiloquin	346	98	Feb.-Sept.		353
	242	100	Apr.-Sept.		242
Upper Klamath Lake net Inflow	971	108	Feb.-Sept.		899
	590	110	Apr.-Sept.		536
Williamson below Sprague River	665	108	Feb.-Sept.		615
	455	110	Apr.-Sept.		414

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	THIS YEAR'S MOISTURE as PERCENT OF: Average [i]
Upper Klamath	1	128	119

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average [i]
Clear Lake	440.2	294.5	297.9	205.6
Gerber	94.0	55.0	54.5	42.2
Upper Klamath Lake	584.0	466.3	410.4	358.9

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average [i]
Lost River	4	105	85
Sprague River	3	145	90
Upper Klamath	8	170	105
Williamson River	3	255	155

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK

LAKE COUNTY, GOOSE LAKE WATERSHEDS

OREGON

as of

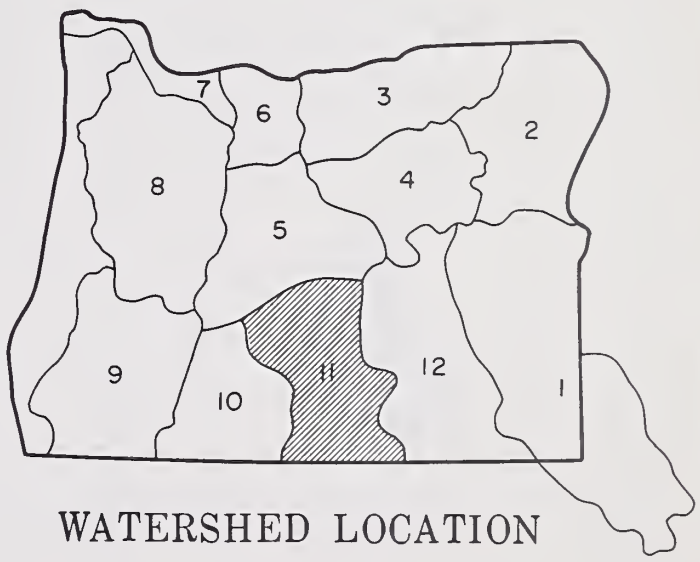
FEBRUARY 1, 1974

GENERAL OUTLOOK

THE WATER SUPPLY OUTLOOK FOR THE LAKE COUNTY, GOOSE LAKE AREA VARIES FROM BELOW AVERAGE IN THE WESTERN PORTION TO NEAR AVERAGE THROUGHOUT THE REMAINDER OF THE AREA, WITH RESERVOIR STORAGE ABOVE AVERAGE. THE SNOWPACK IS GENERALLY BELOW AVERAGE WITH MOST OF THE LOW ELEVATION SNOW ALREADY GONE. PRECIPITATION FOR JANUARY WAS 83 PERCENT OF AVERAGE AND SOIL MOISTURE REMAINS NEAR AVERAGE.

WATER SUPPLY OUTLOOK Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Chewaucan River	Fair	Fair
Crooked Creek	Average	Average
Deep Creek	Average	Average
Dry Creek	Fair	Fair.
East Side Goose Lake	Average	Fair
Guano Lake	Average	Fair
Honey Creek	Average	Fair
Lakeview Water Users Assn.	Average	Average
Rock Creek (Hart Mountain)	Average	Fair
Silver-Buck Creeks	Fair	Fair
Summer Lake	Average	Average
Thomas Creek	Average	Fair
Twentymile Creek	Average	Average
Warner Lakes	Average	Average



WATERSHED LOCATION

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STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average *i*
Chewaucan near Paisley	74	85	March-July		87
Deep above Adel	86	110	March-July		78
Drews Reservoir net Inflow	28	70	March-July		40
Honey near Plush	19	97	March-July		19.5
Silver Creek near Silver Lake	10.9	80	Apr.-July		13.7
Twentymile near Adel	27	105	March-July		26

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	THIS YEAR'S MOISTURE as PERCENT OF: Average *i*
Chewaucan, Silver Creek, Drew Creek	1	128	119
Honey, Deep, 20-Mi. Cr.	1	104	107

RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage This Year	Usable Storage Last Year	Usable Storage Average *i*
Cottonwood	8.7	5.2	1.7	2.9*
Drews	63.0	47.2	39.0	34.3

*Average for years of record (in base period) after reconstruction.

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF: Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF: Average *i*
Chewaucan River	3	145	90
Deep Creek	3	120	100
Drew Creek	3	65	45
Honey Creek	3	135	90
Silver Creek	3	115	55
Twentymile Creek	2	85	95

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

WATER SUPPLY OUTLOOK
HARNEY BASIN WATERSHEDS
OREGON
as of

FEBRUARY 1, 1974

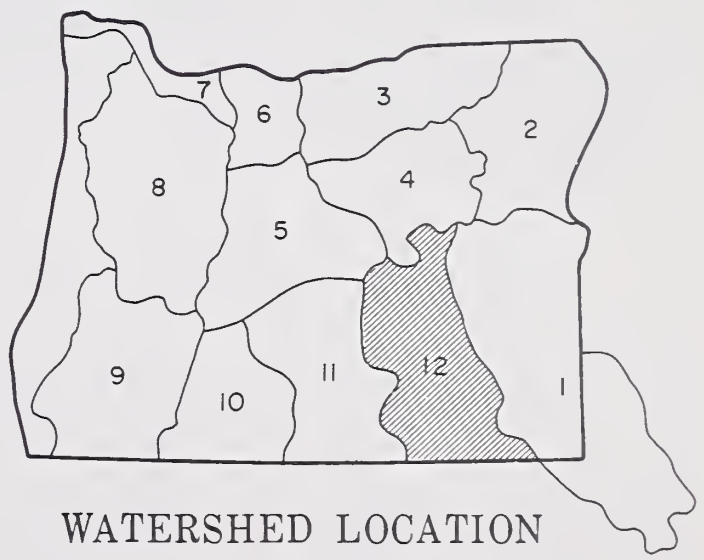
GENERAL OUTLOOK

NEAR AVERAGE WATER SUPPLIES WILL BE AVAILABLE IN THE HARNEY BASIN DURING THE 1974 SEASON. THE SNOWPACK IS AVERAGE THROUGHOUT THE BASIN EXCEPT FOR THE SILVIES RIVER AREA, WHICH IS A 145 PERCENT OF AVERAGE. ALTHOUGH THE PRECIPITATION FOR JANUARY WAS ONLY 43 PERCENT OF AVERAGE, THE SOIL MOISTURE HAS REMAINED ABOVE AVERAGE AS A RESULT OF THE HEAVY FALL PRECIPITATION.

WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Catlow Valley	Average	Average
Cow Creek	Average	Fair
Donner und Blitzen River	Average	Average
Mill-Coffeepot Creeks	Average	Average
Rattlesnake Creek	Average	Average
Silver Creek	Excellent	Average
Silvies River	Excellent	Excellent
Soldier-Prather Creek	Average	Fair
Trout Creek	Average	Fair
Whitehorse Creek	Average	Average



WATERSHED LOCATION

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PORTLAND, OREGON 97205

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average [i]
Donner und Blitzen near Frenchglen	59	107	Mar.-July		55
	55	104	Apr.-Sept.		53
Silver near Riley	20	128	Apr.-July		15.6
Silvies River near Burns	119	127	Mar.-July		94
	99	134	Apr.-Sept.		74
Trout Creek near Denio	7.0	83	Mar.-July		8.4

SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF: Last Year	THIS YEAR'S MOISTURE as PERCENT OF: Average [i]
Silvies River, Silver Cr.	2	120	112
Trout Cr., Donner und Blitzen River	-	-	-

SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF Last Year	THIS YEAR'S SNOW WATER AS PERCENT OF Average [i]
Donner und Blitzen R.	4	110	105
Silver Creek	3	185	105
Silvies River	4	180	145
Trout Creek	3	55	100

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72 adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

BASIC DATA SUPPLEMENT 1

FEBRUARY 1, 1974

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (In.)	THIS YEAR: Water Cont. (In.)	PAST REC. Water Content (inches): Last Yr.	PAST REC. Water Content (inches): Ave.[i]
OWYHEE, MALHEUR WATERSHEDS					
Antelope Ridge (Ida.)				3.7	3.4[h]
Battle Creek[e] (Ida.)	2/6	22	7.3	2.7	2.8
Bear Creek[e] (Nev.)	1/30	51	15.0	15.2	13.1
Big Bend (Nev.)	1/30	34	7.9	6.6	5.7
Blue Mountain Springs	1/30	58	19.5	10.3	11.7
Blue Mtn. Springs Pillow*	1/30		17.0	6.6	- -
Buck Pasture[e]	2/6	T	T	0.6	1.3[m]
Buckskin, Lower (Nev.)	c				
Buckskin, Upper (Nev.)	c				
Bull Basin[e] (Ida.)	2/6	10	3.3	1.8	1.0
Bully Creek[e]	2/5	6	1.8	2.7	2.4
Call Meadow[e]	2/5	12	2.6	2.7	2.9[m]
Columbia Basin[e] (Nev.)	1/29	36	10.4	10.3	6.8[h]
Cottonwood-Indian[e]	2/5	0	0.0	2.7	0.9[h]
Crane Prairie	c				
Disaster Peak (Nev.)	c				
Eldorado Pass	1/30	7	2.0	2.4	3.1
Fawn Creek[e] (Nev.)	1/29	37	10.7	7.3	10.4[h]
Fish Creek[e]	2/6	48	15.8	16.8	14.6[h]
Fish Creek Pillow*	c				
Flag Prairie[e]	2/5	12	2.6	2.7	3.8[m]
Fox Creek (Nev.)	c				
Fry Canyon (Nev.)	1/30	23	7.2	5.8	4.9
Gold Creek (Nev.)	1/30	24	5.5	3.8	3.8
Granite Peak (Nev.)	1/28	29	8.9	12.1	10.2
Hyde Pasture[e] (Ida.)	2/6	30	9.9	2.7	4.2
Jack Creek, Lower (Nev.)					
Jack Creek, Upper[e] (Nev.)	1/29	19	5.7	6.2	4.7
Jack Peak (Nev.)	c				
Lake Creek R. S.	1/30	36	10.0	4.9	7.2
Laurel Draw (Nev.)	1/30	27	7.9	6.1	5.2
Logan Valley[e]	1/25	24	6.7	5.4	5.6
Lookout Butte	2/6	0	0.0	0.1	0.3[m]
Louse Canyon[e]	b			- -	2.2[m]
Martin Creek (Nev.)	1/28	27	7.4	7.3	7.0
Merritt Mountain[e] (Nev.)	1/29	19	4.4	4.5	3.9
Midas[e] (Nev.)	1/29	10	2.5	1.9	2.8[m]
Mud Flat (Ida.)	b			4.0	4.3[h]
Oregon Canyon[e]	2/6	12	4.0	7.0	3.5[m]
Quinn Ridge[e] (Nev.)	2/6	T	T	2.7	1.4[m]
Red Canyon[e] (Ida.)	2/6	30	9.9	5.5	5.4
Rock Spring	1/29	18	5.2	4.0	4.0
Rodeo Flat (Nev.)	1/30	18	5.2	4.9	3.9
76 Creek[e] (Nev.)	1/29	31	9.0	10.1	7.6
Silver City (Ida.)	1/28	46	12.6	6.7	11.0[h]
Silvies[e]	2/6	24	7.9	2.7	5.6[m]
Silvies Pillow*	c				
South Mountain #2 (Ida.)	2/4	38	14.1	6.4	8.3
Stag Mountain[e] (Nev.)	1/29	24	6.0	6.2	3.2
Stinking Water	1/29	0	0.0	1.9	2.2
Succor Creek[e] (Ida.)	2/6	12	4.0	2.7	4.2[m]
Taylor Canyon (Nev.)	1/30	19	5.7	5.5	3.6
Toe Jam[e] (Nev.)	1/29	27	8.1	8.9	6.4[h]
Tremewan Ranch (Nev.)	1/30	6	1.9	1.4	1.2
Triangle[e] (Ida.)	2/6	5	1.6	0.8	0.9
Trout Creek[e]	2/6	12	4.0	7.0	3.9[m]
"V" Lake[e]	2/6	12	4.0	3.4	3.4[m]
Vaught Ranch[e] (Ida.)	2/6	22	7.3	5.5	2.8[m]
War Eagle[e] (Ida.)	2/6	60	19.8	16.8	17.7[m]

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (In.)	THIS YEAR: Water Cont. (In.)	PAST REC. Water Content (inches): Last Yr.	PAST REC. Water Content (inches): Ave.[i]
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS					
Aneroid Lake #1	1/29	115	40.0	18.6	25.4
Aneroid Lake #2	1/28	99	35.8	12.4	23.0
Anthony Lake	1/28	78	25.2	13.6	16.9
Bald Mountain[e] (Ore.)	1/28	69	22.1	12.6	16.6[m]
Beaver Reservoir (Rev.)[1/]	1/30	49	15.5	4.5	9.0
Big Sheep[e]	1/28	93	33.5	16.0	21.0[m]
Blue Mtn. Summit	1/31	38	11.2	4.2	6.3
Bourne	1/30	58	18.1	8.0	11.0
County Line	1/29	22	4.5	1.6	4.0
Dooley Mountain	1/28	30	8.1	5.1	6.3
Eilertson Meadows	1/29	35	10.8	4.5	8.6
Eldorado Pass	1/30	7	2.0	2.4	3.1
Gold Center	1/30	46	14.2	6.8	9.3
Goodrich Lake	1/29	121	55.6	19.9	32.1[m]
Intake House	1/29	44	11.9	6.0	8.9[h]
Little Alps	1/28	47	13.6	5.5	9.1[h]
Little Antone	1/28	23	6.8	3.8	6.7[m]
Lucky Strike	1/30	35	9.2	5.0	10.9[h]
Lucky Strike Pillow*	b			4.2	- -
Meacham	1/25	39	13.0	2.4	6.9
Mirror Lake[e]	1/28	202	80.8	38.9	48.0
Moss Spring	1/29	76	24.2	10.8	15.0
Power Plant	1/29	18	4.6	2.0	4.7[h]
Schneider Meadow	1/28	106	35.1	22.5	21.2
Schoolmarm	1/29	16	2.9	0.8	3.5
Standley[e]	1/28	91	32.7	16.5	19.5[m]
Taylor Green	1/29	58	17.6	9.4	11.6[h]
Tipton	1/31	47	13.8	5.8	7.7
Tipton Snow Pillow*	1/31		16.6	7.5	- -
Tollgate	1/29	95	33.6	7.5	16.9
TV Ridge[e]	1/28	58	17.2	9.5	13.7[m]
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS					
Arbuckle Mountain	2/1	35	10.6	3.4	7.6
Arbuckle Mtn. Pillow*	2/1		23.0	9.9	- -
Battle Mountain Summit	1/25	T	T	T	2.1[h]
Blue Mountain Camp	1/29	60	23.6	4.8	11.2[h]
Butte Creek Summit	b			- -	- -
Emigrant Springs	1/25	16	6.2	0.2	4.1
High Ridge Pillow*	2/8		25.4	- -	- -
Lucky Strike	1/30	35	9.2	5.0	10.9[h]
Lucky Strike Pillow*	b			4.2	- -
Meacham	1/25	39	13.0	2.4	6.9
Tollgate	1/29	95	33.6	7.5	16.9
Weston Mountain	1/29	0	0.0	T	0.6[h]

BASIC DATA SUPPLEMENT 1

FEBRUARY 1, 1974

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR: Date of Survey	Snow Depth (In.)	Water Cont. (In.)	PAST REC.: Water Content (inches) Last Yr.	Ave.[i]
UPPER JOHN DAY WATERSHEDS					
Anthony Lake	1/28	78	25.2	13.6	16.9
Arbuckle Mountain	2/1	35	10.6	3.4	7.6
Arbuckle Mt. Pillow*	2/1		23.0	9.9	- -
Battle Mountain Summit	1/25	T	T	T	2.1
Beech Creek Summit	1/31	9	1.8	2.5	3.6
Blue Mountain Springs	1/30	58	19.5	10.3	11.7
Blue Mt. Springs Pillow*	1/30		17.0	6.6	- -
Blue Mountain Summit	1/31	38	11.2	4.2	6.3
Butte Creek Summit	[b]			- -	- -
Derr	1/29	28	8.9	6.0	7.0
Gold Center	1/30	46	14.2	6.8	9.3
Indian Creek Butte	2/6	60	20.2	18.5	16.9[m]
Izee Summit	1/29	23	6.6	3.8	5.6
Lucky Strike	1/30	35	9.2	5.0	10.9[h]
Lucky Strike Pillow*	[b]			4.2	- -
Marks Creek	1/30	T	T	0.3	3.1
Ochoco Meadows	1/31	31	9.5	3.6	6.8
Olive Lake	1/24	70	21.7	7.2	13.6[h]
Schoolmarm	1/29	16	2.9	0.8	3.5
Snow Mountain	1/29	37	12.2	7.4	10.6[m]
Snow Mt. Pillow**	1/29		8.9	5.0	- -
Starr Ridge	1/29	22	5.7	2.4	4.4
Tipton	1/31	47	13.8	5.8	7.7
Tipton Snow Pillow*	1/31		16.6	7.5	- -
Williams Ranch	[c]				
UPPER DESCHUTES, CROOKED WATERSHEDS					
Bald Peter	1/31	99	37.8	10.9	- -
Caldwell Ranch	2/1	34	10.2	5.2	8.0[h]
Cascade Summit	1/30	78	28.2	11.7	19.2
Chemult	1/31	31	8.9	5.8	8.1
Chemult Alternate	1/31	34	10.2	6.6	- -
Derr	1/29	28	8.9	6.0	7.0
Hogg Pass	1/30	102	40.0	10.6	27.5
Hungry Flat	1/29	11	3.4	1.3	4.9
Irish-Taylor Pillow[1/]**	1/29		40.0	19.4	25.4
Lionshead[e]	2/2	30	11.4	- -	- -
Marks Creek	1/30	T	T	0.3	3.1
New Crescent Lake	1/29	0	0.0	5.6	10.2
New Dutchman Flat #2	1/29	127	50.3	24.4	32.9
Ochoco Meadows	1/31	31	9.5	3.6	6.8
Racing Creek	1/31	52	17.6	1.9	- -
Snow Mountain	1/29	37	12.2	7.4	10.6[m]
Snow Mt. Pillow**	1/29		8.9	5.0	- -
Tamarack	1/28	12	3.6	2.1	4.1[h]
Tangent	1/29	72	27.0	10.8	16.0
Three Creek Butte	1/31	34	10.3	3.5	8.5
Three Creek Meadow	1/31	49	17.8	6.3	12.7
Three Creek Mdw. Pillow**	1/31		23.5	9.2	- -
Waldo Lake	2/1	89	30.6	11.4	20.0
Whitewater Meadow[e]	2/2	9	3.1	- -	- -
Willamette Pass	1/29	96	42.4	16.6	27.2[h]
Willamette Pass Pillow**	1/29		35.0	- -	- -

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR: Date of Survey	Snow Depth (In.)	Water Cont. (In.)	PAST REC.: Water Content (inches) Last Yr.	Ave.[i]
HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS					
Brooks Meadows	[c]				
Clear Lake	1/29	34	10.8	1.4	7.3
Clear Lake (Experimental)	1/29	54	18.0	4.0	10.9
Cooper Spur (Revised)[1/]	2/1	40	14.5	4.2	9.8[h]
Greenpoint	1/27	50	18.2	3.5	11.5
Knebal Springs	[c]				
Mt. Hood Test Site[1/]	2/3		67.7	19.2	41.3
Parkdale	2/1	0	0.0	0.2	1.4[h]
Red Hill	1/26	100	39.0	9.9	25.2
Still Creek	1/29	74	26.2	6.0	15.6
Still Creek Alt. #2	1/29	76	28.2	5.9	- -
Switchback	1/31	46	19.4	5.4	10.1[h]
Tilly Jane	1/29	104	45.4	13.3	25.7
Ulrich Ranch Junction	[c]				
Umbrella Falls	[c]				
Upper Valley	2/1	T	T	1.1	4.1[h]
WILLAMETTE WATERSHEDS					
Cascade Summit	1/30	78	28.2	11.7	19.2
Champion	1/30	78	34.3	8.3	17.8[h]
Clackamas Lake					
Clear Lake	1/29	34	10.8	1.4	7.3
Clear Lake (Expt.)	1/29	54	18.0	4.0	10.9
Dead Horse Grade	1/30	36	9.4	5.4	11.2
Detroit (Town)	1/30	0	0.0	0.0	1.8
Detroit Dam	1/30	0	0.0	0.0	0.8
Fawn Meadow	1/31	89	28.3	8.6	32.8
Golden Curry Creek	1/30	T	T	0.9	3.7[m]
Hogg Pass	1/30	102	40.0	10.6	27.5
Lake Harriet	[b]			0.0	2.0[m]
Laurel Mountain	1/30	0	0.0	2.5	- -
Layng Creek	1/30	0	0.0	0.0	0.2
Lemiti Meadow	1/30	58	17.7	8.0	19.5
Lookout Point Dam	1/30	0	0.0	0.0	0.3
Lost Creek Ranch	1/30	0	0.0	1.0	3.9
Lund Park	1/30	0	0.0	T	0.3
Marion Forks	1/30	33	13.9	3.0	9.1[h]
Marys Peak (Revised)[1/]	1/30	5	1.6	4.7	7.5[m]
McCredie Springs	1/30	0	0.0	T	0.5
McKenzie	1/30	113	49.5	16.2	29.2
McKenzie Bridge	1/30	0	0.0	0.0	0.7
Mill City	1/30	0	0.0	0.0	0.5
Mt. Hood Test Site[1/]**	2/3		67.7	19.2	41.3
Oakridge	1/30	0	0.0	0.0	0.2
Olallie Meadow	1/31	93	29.4	- -	- -
Peavine Ridge Pillow**	1/30		19.6	3.4	12.3[h]
Power Line	1/30	60	24.7	9.7	18.1
Railroad Overpass	1/30	2	0.2	0.2	1.8
Saddle Mountain Pillow**	1/30		3.0	4.0	- -
Salt Creek Falls	1/30	38	12.1	3.7	10.6
Santiam Junction	1/30	66	27.2	6.6	16.7
Seine Creek Pillow**	1/30		0.0	0.0	- -
Still Creek	1/29	74	26.2	6.0	15.6
Still Creek Alt. #2	1/29	76	28.2	5.9	- -
Timothy Lake	1/30	52	19.5	3.5	9.8[m]
Valsetz Summit	1/30	0	0.0	0.2	- -
Vida	1/30	0	0.0	0.0	0.5
Waldo Lake	2/1	89	30.6	11.4	20.0
Weaver Creek	1/30	0	0.0	0.1	0.6[m]
White Branch Slide	1/30	1	0.1	1.8	5.6
Whitewater Bridge	1/30	5	2.1	1.4	5.0
Willamette Pass	1/29	96	42.4	16.6	27.2[h]
Willamette Pass Pillow	1/29		35.0	- -	- -

BASIC DATA SUPPLEMENT 1

FEBRUARY 1, 1974

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR: Date of Survey	Snow Depth (In.)	Water Cont. (In.)	PAST REC.: Water Content (inches) Last Yr.	Ave.[i]
ROGUE, UMPQUA WATERSHEDS					
Althouse (Revised)[1/]	1/29	4	1.6	6.2	6.2[h]
Annie Spring	1/31	122	45.5	26.7	28.7
Beaver Dam Creek	1/31	28	11.1	8.3	9.6
Big Red Mountain	1/28	74	30.1	13.2	20.7[h]
Billie Creek Divide	1/30	47	18.0	12.2	14.7[h]
Caliban	1/29	109	41.5	17.8	24.7[h]
Caliban (Alternate)	1/29	111	42.6	- -	- -[h]
Champion	1/30	78	34.3	8.3	17.8[h]
Cold Springs Camp	1/29	85	32.2	18.7	22.8
Cold Springs Pillow**	1/29		34.2	15.5	- -[h]
Deadwood Junction	1/31	10	4.2	5.7	6.5[h]
Diamond-Crater Sum (Rev)[1/]	1/31	90	32.2	13.4	19.5
Diamond Lake	1/31	66	21.4	8.0	13.7
Fish Lake	1/30	29	10.1	7.4	9.4[h]
Fourmile Lake	[c]				
Grayback Peak	1/30	36	14.1	8.3	19.2
Howard Prairie Reservoir	1/31	15	5.7	5.2	6.5[h]
Hyatt Prairie	1/31	11	4.9	5.0	6.0
King Mountain #1	1/29	7	2.2	4.1	- -
King Mountain #2	1/29	2	0.5	3.8	- -
King Mountain #3	1/29	0	0.0	1.4	1.0[m]
King Mountain #4	1/29	0	0.0	0.0	0.1[m]
King Mountain #5	1/29	0	0.0	0.0	0.1[m]
King Mountain #6	1/29	0	0.0	0.0	0.0[m]
Little Red Mountain	1/28	61	23.5	10.3	17.2[h]
Mt. Ashland Switchback	1/28	109	40.0	16.7	24.4[h]
Mule Creek	1/29	0	0.0	3.9	- -
North Umpqua	1/30	42	15.4	4.5	10.3
Page Mountain	1/29	0	0.0	4.0	4.0
Park Headquarters	1/31	163	66.2	32.3	38.8
Red Butte #1	1/28	26	10.6	5.2	10.0[m]
Red Butte #2	1/28	5	1.3	2.6	6.7[m]
Red Butte #3	1/28	2	0.8	1.4	4.2[m]
Red Butte #4	1/28	T	T	0.0	2.4[m]
Red Butte #5	1/28	0	0.0	0.0	0.6[m]
Red Butte #6	1/28	0	0.0	0.0	T[m]
Seven Lakes #2	1/23	82	33.5	20.4	26.4[h]
Seven Mile	1/24	72	27.9	16.0	- -
Silver Burn	1/30	25	9.7	5.6	9.9
Siskiyou Summit (Rev.)[1/]	1/30	0	0.0	1.8	7.0[h]
Ski Bowl Road	1/28	80	27.6	14.2	20.5
South Fork Canal	1/30	0	0.0	1.1	3.2
Trap Creek	1/30	31	12.2	4.8	8.8
Whaleback	1/31	85	29.4	15.9	20.6[h]

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR: Date of Survey	Snow Depth (In.)	Water Cont. (In.)	PAST REC.: Water Content (inches) Last Yr.	Ave.[i]
KLAMATH WATERSHEDS					
Annie Spring	1/31	122	45.5	26.7	28.7
Billie Creek Divide	1/30	47	18.0	12.2	14.7[h]
Chemult	1/31	31	8.9	5.8	8.1
Chemult (Alternate)	1/31	34	10.2	6.6	- -
Chiloquin (PP&L)	[b]			- -	1.8[m]
Cold Springs Camp	1/29	85	32.2	17.7	22.8[h]
Cold Springs Pillow**	1/29		34.2	15.5	- -
Crazyman Flat[e]	1/25	18	6.5	4.7	7.4
Crowder Flat[e] (Calif.)	1/25	0	0.0	0.9	3.2
Crystal (PP&L)	1/30	8	3.4	5.5	6.8
Diamond-Crater Sum (Rev)[1/]	1/31	90	32.2	13.4	19.5[h]
Diamond Lake Junction (97)	1/31	11	3.9	2.0	4.7[h]
Dog Hollow[e]	1/25	0	0.0	0.9	1.2
Finley Corrals[e]	1/25	28	10.1	11.2	11.8
Fort Klamath (PP&L)	1/31	0	0.0	1.2	3.6
Fourmile Lake	[c]				
Gerber	2/1	3	1.0	1.0	2.5
Harriman (PP&L)	1/31	2	1.0	3.8	3.5[m]
Howard Prairie	1/31	15	5.7	5.2	6.5[h]
Hyatt Prairie Reservoir	1/31	11	4.9	5.0	6.0
Kirk (PP&L)	[b]			- -	5.7
Lake of the Woods	1/28	20	6.5	4.1	7.8[h]
Park Headquarters	1/31	163	66.2	32.3	38.8
Quartz Mountain	1/30	1	0.3	2.5	5.4
Seven Lakes #2	1/23	82	33.5	20.4	26.4[h]
Seven Mile	1/24	72	27.9	16.0	- -
State Line (Calif.)	1/25	10	3.6	6.2	6.9
Strawberry	1/26	13	4.7	4.9	6.0
Summer Rim[e]	1/25	38	13.7	7.6	10.3
Summer Rim Pillow*	[c]				
Sycan Flat[e]	1/25	9	3.6	3.1	6.3
Taylor Butte	1/31	7	3.1	2.2	4.1
LAKE COUNTY, GOOSE LAKE WATERSHEDS					
Adin Mountain (Calif.)	1/30	31	11.2	8.7	8.9
Bald Mountain (Nev.)	[c]				
Bear Flat Meadow[e]	1/25	17	6.1	5.2	6.9
Camas Creek	1/30	20	7.1	4.6	7.6
Cedar Pass (Calif.)	1/29	36	13.0	9.8	10.6
Colvin Creek[e]	1/25	8	2.9	3.1	4.2[m]
Cox Flat[e]	1/25	3	1.0	3.1	5.8
Crowder Flat[e] (Calif.)	1/25	0	0.0	0.9	3.2
Dismal Swamp[e] (Calif.)	1/25	35	12.6	12.6	10.1
Finley Corrals[e]	1/25	28	10.1	11.2	11.8
Hart Mountain[e]	1/25	2	0.6	1.1	1.0
Little Bally Mtn.[e] (Nev.)	1/25	8	2.6	3.1	2.0[m]
Mt. Bidwell (Calif.)	[c]				
North Star (Calif.)	[c]				
Patton Meadows[e]	1/25	36	13.0	10.1	12.5[m]
Quartz Mountain	1/30	1	0.3	2.5	5.4
Sherman Valley[e]	1/25	20	7.2	5.2	7.7
Silver Creek	1/28	1	0.4	0.9	2.7
State Line[e] (Calif.)	1/25	10	3.6	6.2	6.9
Strawberry	1/26	13	4.7	4.9	6.0
Summer Rim[e]	1/25	38	13.7	7.6	10.3
Summer Rim Pillow*	[c]				
Sycan Flat[e]	1/25	9	3.6	3.1	6.3
Willow Creek[e]	1/25	0	0.0	2.0	2.9

BASIC DATA SUPPLEMENT 1

FEBRUARY 1, 1974

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (In.)	THIS YEAR: Water Cont. (In.)	PAST REC.: Water Content (inches) Last Yr.	PAST REC.: Water Content (inches) Ave.
HARNEY BASIN WATERSHEDS					
Blue Mountain Springs	1/30	58	19.5	10.3	11.7
Blue Mtn. Springs Pillow*	1/30		17.0	6.6	- -
Buck Pasture [e]	2/6	T	T	0.6	1.3 [i,m]
Buckskin Lake [e]	2/6	0	0.0	0.0	0.9 [m]
Call Meadows [e]	2/5	12	2.6	2.7	2.9 [m]
Delintment Lake	1/29	20	7.4	2.5	5.3 [m]
Denio Creek [e]	2/6	T	T	0.6	0.6
Disaster Peak (Nev.)	[c]				
Emigrant Butte	1/29	2	0.6	1.0	3.2 [h]
Fish Creek [e]	2/6	48	15.8	16.8	14.6
Fish Creek Pillow*	[c]				
Hart Mountain [e]	1/25	2	0.6	1.1	1.0
Idlewild Camp	1/30	17	5.4	1.4	4.2
Idlewild Camp Alternate	1/30	12	4.3	1.1	- -
Izee Summit	1/29	23	6.6	3.8	5.6
Lake Creek R. S.	1/30	36	10.0	4.9	7.2
Oregon Canyon [e]	2/6	12	4.0	7.0	3.5 [m]
Rock Spring	1/29	18	5.2	4.0	4.0
Silvies [e]	2/6	24	7.9	2.7	5.6 [m]
Silvies Pillow*	[c]				
Snow Mountain	1/29	37	12.2	7.4	10.6 [m]
Snow Mountain Pillow**	1/29		8.9	5.0	- -
Starr Ridge	1/29	22	5.7	2.4	4.4
Stinking Water	1/29	0	0.0	1.9	2.2
Trout Creek [e]	2/6	12	4.0	7.0	3.9 [m]
"V" Lake [e]	2/6	12	4.0	3.4	3.4 [m]

*Manometer reading.
**Telemetry reading.
1/ Location has been changed--surveys are made on an alternate site and data has been revised accordingly.

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR: Date of Survey	THIS YEAR: Snow Depth (In.)	THIS YEAR: Water Cont. (In.)	PAST REC.: Water Content (inches) Last Yr.	PAST REC.: Water Content (inches) Ave.

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72 adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report – data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

BASIC DATA SUPPLEMENT 2

FEBRUARY 1, 1974

SOIL MOISTURE

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average +
OWYHEE, MALHEUR WATERSHEDS							
Bear Creek (Nev.)	7800	72	16.8	c			
Big Bend (Nev.)	6700	48	16.7	1/30	14.4	12.5	14.6
Blue Mountain Spring	5900	42	16.9	1/30	11.8	6.2	9.2 m
Jordan Valley	4390	48	19.3	2/4	16.5	15.4	15.4
Mud Flat (Ida.)	5500	48	12.8	6		12.0	10.9 m
Rodeo Flat (Nev.)	6800	42	11.0	1/30	7.7	7.0	8.9 m
Taylor Canyon (Nev.)	6200	48	15.1	1/30	10.9	10.9 f	11.9 m
BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS							
Blue Mountain Summit	5100	36	16.8	1/31	13.5	8.8	10.1 m
Dooley Mountain	5430	36	9.2	1/28	4.4	2.5	3.7 m
Emigrant Springs	3925	48	22.3	1/25	20.4	18.6	19.5 m
Ladd Summit	3730	48	18.9	1/28	13.7	9.9	10.4 m
Moss Springs	5850	36	25.8	1/29	15.2	14.7	14.9 m
Tollgate	5070	48	23.6	1/29	16.5	15.4	19.0 m
UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS							
Battle Mountain Summit	4340	48	13.8	1/25	13.7	12.6	12.6 m
Emigrant Springs	3925	48	22.3	1/25	20.4	18.6	19.5 m
Tollgate	5070	48	23.6	1/29	16.5	15.4	19.0 m
UPPER JOHN DAY WATERSHEDS							
Battle Mountain Summit	4340	48	13.8	1/25	13.7	12.6	12.6 m
Beech Creek	4800	48	21.3	1/31	18.8	13.8	13.0 m
Blue Mountain Spring	5900	42	16.9	1/30	11.8	6.2	9.2 m
Blue Mountain Summit	5100	36	16.8	1/31	13.5	8.8	10.1 m
Derr	5670	24	9.0	1/29	8.9	5.6	8.1 m
Marks Creek	4540	36	14.1	1/30	13.4	9.2	11.0 m
Snow Mountain	6300	48	16.7	1/29	14.8	12.4	13.6 m
Starr Ridge	5150	36	10.6	1/29	10.6	8.7	9.3 m
UPPER DESCHUTES, CROOKED WATERSHEDS							
Derr	5670	24	9.0	1/28	8.9	5.6	8.1 m
Marks Creek	4540	36	14.1	1/30	13.4	9.2	11.0 m
Snow Mountain	6300	48	16.7	1/29	14.8	12.4	13.6 m
KLAMATH WATERSHEDS							
Quartz Mountain	5230	48	15.3	1/30	10.1	7.9	8.5 m
LAKE COUNTY, GOOSE LAKE WATERSHEDS							
Camas Creek	5720	42	14.5	1/30	13.0	12.5	12.1 m
Quartz Mountain	5230	48	15.3	1/30	10.1	7.9	8.5 m

BASIC DATA SUPPLEMENT 2

FEBRUARY 1, 1974

SOIL MOISTURE

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average [i]
HARNEY BASIN WATERSHEDS							
Blue Mountain Spring	5900	42	16.9	1/30	11.8	6.2	9.2 [m]
Silvies	6900	48	16.4	[c]			
Snow Mountain	6300	48	16.7	1/29	14.8	12.4	13.6
Starr Ridge	5150	36	10.6	1/29	10.6	8.7	9.3 [m]
Willow-Bald	5000	24	6.6	1/29	6.6	4.2	5.7 [m]

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report – data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

BASIC DATA SUPPLEMENT 3

FEBRUARY 1, 1974

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION		PAST RECORD	
		Date of Reading	Precip-itation	Last Year	Average [i]
Camas Creek (Lake County)	5825	From 12/28 to 1/30	4.10	3.30	
County Line (Umatilla County--Starkey Hdqs.)	4800	From 12/28 to 1/29	3.10	2.20	
Lucky Strike (Umatilla County)	5050	From 4/30 to 1/30	11.65		
Marks Creek (Crook-Wheeler Cos.)	4540	From 12/26 to 1/30	1.00		
Quartz Mt. Summit (Lake County	6300	From 12/28 to 1/30	2.90	0.80	
Saddle Mountain (Washington County)	3250	From 1/3 to 2/1	27.00		
Seine Creek (Washington County)	2150	From 1/3 to 2/1	19.20		
Silver Creek (Lake County)	4900	From 12/27 to 1/28	5.12	2.29	
Strawberry (Lake County)	5760	From 10/3 to 1/26	14.40	10.75	
Taylor Butte (Klamath County)	5040	From 12/28 to 1/30	5.34		

(a) Assuming normal meteorological conditions. (b) No report. (c) Not scheduled. (d) Corrected to natural flow. (e) Aerial snow depth gage, water content estimated. (f) Nearest current data. (g) Partly estimated. (h) 1958-72, adjusted average. (i) 1958-72, 15 year average. (j) Telephonic report - data not confirmed. (k) Data from PP&L Co. or USBR records. (m) Average for 5 or more years in base period.

Thi

OWYHEE, MALHEUR WATERSHEDS (1)

Owyhee River

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
16M3AP	Midas	(Nev)	18	39N	46E	7200
16G7MP	Mud Flat	(Ida)	34	9S	2W	5500
17G5a	Oregon Canyon		8	40S	40E	6950
17H6a	Quinn Ridge	(Nev)	9	47N	41E	6300
16G11a	Red Canyon	(Ida)	32	11S	4W	6650
15H6MP	Rodeo Flat	(Nev)	36	43N	53E	6800
15H3A	76 Creek	(Nev)	6	44N	58E	7100
16F3AP*	Silver City	(Ida)	6	5S	3W	6400
15G1PA	Silvies		35	32S	33E	6900
16G1P	South Mountain No.2	(Ida)	10	8S	5W	6340
15H19a	Stag Mountain	(Nev)	32	41N	58E	7800
16F6a	Succor Creek	(Ida)	25	3S	5W	6100
15H8MP	Taylor Canyon	(Nev)	35	39N	53E	6200
16H7a	Toe Jam	(Nev)	29	40N	50E	7700
15H8	Tremewan Ranch	(Nev)	9	39N	55E	5700
16G4MA	Triangle	(Ida)	25	7S	3W	5150
16G5a	Trout Creek		10	41S	38E	7800
16G7a	"Y" Lake		31	35½S	32½E	6600
16G12a	Vaught Ranch	(Ida)	10	11S	1W	5950
16G13a	War Eagle	(Ida)	20	5S	3W	7700

Malheur River

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
18E16MP	Blue Mountain Springs		21	15S	35E	5900
18F5a	Buck Pasture		28	29S	35E	5300
18E21a	Bully Creek		11	17S	37E	5300
18F7a	Call Meadows		29	20S	33E	5340
17F2a	Cottonwood-Indian		3	19S	39E	4320
18E19M	Crane Prairie		24	16S	34E	5375
18E20	Eldorado Pass		20	14S	38E	4600
18E26a	Flag Prairie		32	16S	36E	4750
18E18	Lake Creek		10	16S	33½E	5200
18E22a	Logan Valley		13	16S	33½E	5100
18F1	Rock Spring		23	18S	32E	5100
18E32p*	S. Fk. Willow Cr.		2	16S	37E	5500
18F4P	Stinking Water		34	21S	34E	4800

BURNT, POWDER, PINE, GRANDE RONDE, IMNAHA WATERSHEDS (2)

Burnt River

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
18E13M	Blue Mountain Summit		6	12S	36E	5098
17E1MP	Dooley Mountain		32	11S	40E	5430
18E20	Eldorado Pass		20	14S	38E	4600
18E8	Gold Center		21	9S	36E	5340
18E9P	Tipton		34	10S	35E	5100

Powder River

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
18E1P	Anthony Lake		18	7S	37E	7125
18E5	Bourne		33	8S	37E	5800
17E1MP	Dooley Mountain		32	11S	40E	5430
18E3	Ellertson Meadows		18	8S	38E	5400
18E8	Gold Center		21	9S	36E	5340
18E6A	Goodrich Lake		4	9S	38E	6775
18E29	Intake House		5	8S	38E	4930
17012m	Ladd Summit		5	5S	39E	3730
18E23	Little Alps		10	7S	37E	6200
18E30	Little Antone		1	7S	37E	6200
18E28	Power Plant		33	7S	38E	3990
1707P	Taylor Green		3	6S	42E	5740

Pine Creek

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
1708	Schneider Meadows		35	6S	45E	5400

Gronde Ronde River

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
1701	Aneroid Lake No. 1		16	4S	45E	7480
1702P	Aneroid Lake No. 2		16	4S	45E	7300
18E1P	Anthony Lake		18	7S	37E	7125
17010a	Bald Mountain	14 & 15	4S		45E	6700
18D9	Beaver Reservoir		8	5S	37E	5150
1808P	County Line		28	4S	34E	4800
1806P	Lucky Strike		28	3S	32E	5050
1805	Meacham		24	1S	35E	4300
18D20	Meacham Snow Pillow		35	1S	35E	4150
17013a	Mirror Lake		34	4S	44E	8200
1706M	Moss Spring		28	3S	41E	5850
1807	Schoolmarm		28	4S	34E	4775
17011a	Standley		21	2S	42E	7400
1707P	Taylor Green		3	6S	42E	5740
1803	Tollgate		32	4N	38E	5070
17016a	TV Ridge No. 2		12	2S	43E	7000

Imnaha River

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
1701	Aneroid Lake No. 1		16	4S	45E	7480
1702P	Aneroid Lake No. 2		16	4S	45E	7300
17014a	Big Sheep		33	4S	46E	6200

UMATILLA, WALLA WALLA, WILLOW, ROCK, LOWER JOHN DAY WATERSHEDS (3)

Umatillo River

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
1902P	Arbuckle Mountain		33	4S	29E	5400
18D12MP	Battle Mountain Summit		29	3S	31E	4340
20E4	Butte Creek Summit		5	8S	22E	3930
18D4M	Emigrant Springs		29	1N	35E	3925
18D19	High Ridge Pillow		31	1S	35E	4150
1806P	Lucky Strike		28	3S	32E	5050
1805	Meacham		24	1S	35E	4300
18D20	Meacham Snow Pillow		35	1S	35E	4150
1803	Tollgate		32	4N	38E	5070

Walla Walla River

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
18D16	Blue Mountain Camp		35	4N	37E	4300
1803	Tollgate		32	4N	38E	5070
18D17	Weston Mountain		25	4N	35E	2700

LEGEND

1902	SNOW COURSE ONLY
1903M	SNOW COURSE AND SOIL MOISTURE
1903MA	SNOW COURSE, SOIL MOISTURE AND AERIAL MARKER
1903A	SNOW COURSE AND AERIAL MARKER
1902m	SOIL MOISTURE ONLY
1902a	AERIAL MARKER ONLY
1902P	SNOW COURSE AND PRECIPITATION GAGE
1902p	PRECIPITATION GAGE ONLY
1902*	RADIO TELEMETRY

Willow Creek

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
1902P	Arbuckle Mountain		33	4S	29E	5400
18E1P	Anthony Lake		18	7S	37E	7125

UPPER JOHN DAY WATERSHEDS (4)

Upper John Day River

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
1902P	Arbuckle Mountain		33	4S	29E	5400
18D12MP	Battle Mountain Summit		29	3S	31E	4340
18E2M	Beech Creek Summit	32 & 33	11S		30E	4650
18E16MP	Blue Mountain Springs		21	15S	35E	5900
18E13M	Blue Mountain Summit		6	12S	36E	5098
20E4	Butte Creek Summit		5	8S	22E	3930
19E3MP	Oerr		14	13S	23E	5670
18E8	Gold Center		21	9S	36E	5340
18E24a	Indian Cr. Butte		5	15S	33E	6550
19E9P	Izee Summit		28	16S	29E	5293
1806P	Lucky Strike		28	3S	32E	5050
20E1MP	Marks Creek		25	12S	19E	4540
20E2	Ochoco Meadows		21	13S	20E	5200
18E7a	Olive Lake		14	9S	34E	6000
1807	Schoolmarm		28	4S	34E	4775
19F1*	Snow Mountain		1	19S	26E	6220
19E7M	Starr Ridge		20	15S	31E	5150
18E9P	Tipton		34	10S	35½E	5100
18E25MP	Williams Ranch		20	15S	32E	4500

UPPER DESCHUTES, CROOKED WATERSHEDS (5)

Upper Deschutes River

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
21E22	Bald Peter		29	10S	9E	5400
21F8	Caldwell Ranch		30	21S	8E	4400
22F3	Cascade Summit		7	23S	6E	4880
21F11	Chemult		21	27S	8E	4760
21E6	Hogg Pass		24	13S	7½E	4755
21F4	Hungry Flat		29	18S	11E	4400
21F6*	Irish-Taylor		25	20S	6E	5500
21F10	New Crescent Lake		11	24S	6E	4800
21E16	New Dutchman Flat #2		21	18S	9E	6400
21E23	Racing Creek		15	10S	9E	4800
21F3	Tangent		28	18S	10E	5400
21E15	Three Creeks Butte		27	16S	9E	5200
21E13*	Three Creeks Meadows		34	16S	9E	5650
22F2P	Waldo Lake		15	21S	6E	5600
22F14*	Willamette Pass		33	24S	5½E	5600

Crooked River

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
19E3MP	Oerr		14	13S	23E	5670
20E1MP	Marks Creek		25	12S	19E	4540
20E2	Ochoco Meadows		21	13S	20E	5200
19F1*	Snow Mountain		1	19S	26E	6220
19E4	Tamarack		8	15S	25E	4800

HOOD, MILE CREEKS, LOWER DESCHUTES WATERSHEDS (6)

Hood River

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
21D6P	Brooks Meadows		2	2S	10E	4300
21025	Cooper Spur		6	2S	10E	3490
2101	Greenpoint Reservoir		27	2N	9E	3200
21020	Knebal Springs		31	1S	11E	3850
21023	Parkdale		5	1S	10E	1770
2108*	Phlox Point		7	3S	9E	5400
2104	Red Hill		20	1S	9E	4400
2109	Still Creek		25	3S	8½E	3670
21028	Switchback		28	1S	9E	3255
2107P	Tilly Jane		15	2S	9E	6000
21021	Ulrich Ranch Junction		28	1S	11E	3350
21030	Umbrella Falls		3	3S	9E	5400
21024	Upper Valley		20	1S	10E	2530

Mile Creeks - Mosier Creek

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
2106P	Brooks Meadows		2	2S	10E	4300
21020	Knebal Springs		31	1S	11E	3850
21021	Ulrich Ranch Junction		28	1S	11E	3350

Lower Deschutes River

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
21012	Clear Lake		29	4S	9E	3500
21022	Clear Lake Experimental		29	4S	9E	3500
21E6	Hogg Pass		24	13S	7½E	4755

LOWER COLUMBIA WATERSHEDS (7)

Sandy River

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
2108*	Phlox Point		7	3S	9E	5400
2109	Still Creek		25	3S	8½E	3670

WILLAMETTE WATERSHEDS (8)

Clackamas River

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
21013	Clackamas Lake		35	5S	8½E	3400
21012	Clear Lake		29	4S	9E	3500
21016	Lake Harriet		4	6S	7E	2045
21014P*	Peavine Ridge	14 & 15	6S		7E	3500
2108*	Phlox Point		7	3S	9E	5400
2109	Still Creek		25	3S	8½E	3670
21017	Timothy Lake		26	5S	8E	3295

Santiam River

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
22E1	Detroit (City)		1	10S	5E	1610
22E2	Detroit Dam		7	10S	5E	1580
21E6	Hogg Pass		24	13S	7½E	4755
21E4	Marion Forks		29	11S	7E	2600
22E3	Mill City		29	9S	3E	826
21E5	Santiam Junction		14	13S	7E	3750
21E3	Whitewater Bridge		20	10S	7E	2175

McKenzie River

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
21E8	Dead Horse Grade		13	16S	7E	3700
22E4	Lost Creek Ranch		19	16S	7E	1956
21E7	McKenzie		35	15S	7½E	4800
22E5	McKenzie Bridge		13	16S	5E	1372
22E6	Vida		28	16S	2E	800
21E9	White Branch Slide		15	16S	7E	2700

Middle Fork Willamette River

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
22F3	Cascade Summit		7	23S	6E	4880
22F8	Lookout Point Dam		13	19S	1W	750
22F6	McCredie Springs		36	21S	4E	2120
22F7	Oakridge		16	21S	3E	1310
22F5	Railroad Overpass		21	22S	5E	2750
22F4	Salt Creek Falls		32	22S	5½E	4000
22F2P	Waldo Lake		15	24S	6E	5600
22F14*	Willamette Pass		33	24S	5½E	5600

Coost Fork Willomette River

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
22F9	Champion		12	23S	1E	4500
22F10	Golden Curry Creek		1	23S	1E	3136
22F13	Layng Creek R.S.		31	21S	1E	1200
22F12	Lund Park		22	22S	1E	1740
22F11	Weaver Creek		35	22S	1E	2440

Mary's River

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
23E1	Mary's Peak		21	12S	7W	3620

Luckiamute River

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
23E2	Laurel Mountain		6	8S	7W	3000
23E3	Valsetz Summit		3	9S	7W	2600

Tualatin River

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
2302*	Seine Creek		34	1N	5W	2000
2301*	Saddle Mountain		25	1N	6W	3250

ROGUE, UMPQUA WATERSHEDS (9)

Rogue River

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
23G4P	Althouse		17	41S	7W	4530
22G6	Annie Spring		19	31S	6E	6018
22G28	Beaver Dam Creek		1	38S	4E	5100
22G21P	Big Red Mountain		31	40S	1W	6250
22G13P	Billie Creek Divide		30	36S	5E	5300
22G30	Caliban		16	40S	1E	6500
22G27	Deadwood Junction		8	38S	4E	4600
22F19	Diamond-Crater Summit		34	28S	6E	5800
22G14P	Fish Lake		3	37S	4E	4665
22G12	Fourmile Lake		9	36S	5E	6000
23G3	Grayback Peak		9	40S	5W	6000
22G26	Howard Prairie		32	38S	4E	4500
22G16	Hyatt Prairie Reservoir		15	39S	3E	4900
22G22	Little Red Mountain		25	40S	2W	6500
22G31	Mt. Ashland Switchback		15	40S	1E	6400
23G14	Mule Creek		8	32S	9W	3680
23G5	Page Mountain		5	41S	7W	4045
22G5	Park Headquarters		8	31S	6E	6550
22G11	Seven Lakes No. 2		26	33S	5E	6200
22G2	Silver Burn		30	30S	4E	3720
22G20	Siskiyou Summit		17	40S	2E	4630
22G32	Ski Bowl Road		22	40S	1E	6000
22G9	South Fork Canal		12	33S	3E	3500
22G1	Whaleback		4	31S	2E	5025

Umpqua River

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
22F9	Champion		12	23S	1E	4500
22F18P	Diamond Lake		29	27S	6E	5315
23G8	King Mountain No. 1		5	33S	4W	4500
23G9	King Mountain No. 2		4	33S	4W	4000
23G10	King Mountain No. 3		33	32S	4W	3648
23G11	King Mountain No. 4		33	32S	4W	3049
23G12	King Mountain No. 5	29 & 28	32S		4W	2380
23G13	King Mountain No. 6		20	32S	4W	1820
22F16	North Umpqua		19	26S	6E	4215
22F23	Red Butte No. 1		36	27S	2W	4560
22F24	Red Butte No. 2		30	27S	1W	4000
22F25	Red Butte No. 3		30	27S	1W	3500
22F26	Red Butte No. 4		30	27S	1W	3000
22F27	Red Butte No. 5		20	27S	1W	2500
22F28	Red Butte No. 6		17	27S	1W	2000
22F17	Trap Creek		1	27S	4E	3800
22G1	Whaleback		4	31S	2E	5025

KLAMATH WATERSHEDS (10)

Klomoth River

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
22G6	Annie Spring		19	31S	6E	6018
22G13P	Billie Creek Divide		30	36S	5E	5300
21F11	Chemult		21	27S	8E	4760
22G24*	Cold Springs Camp		12	35S	5E	6100
20G12a	Crazyman Flat		9	34S	1SE	6100
20H2a	Crowder Flat	(Cal)	30	47N	11E	5200
22F19	Diamond-Crater Summit		34	28S	6E	5800
21F18	Diamond Lake Jct. (97)		1	29S	7E	4600
21G6a	Dog Hollow		1	40S	14E	4900
20G14a	Finley Corrals		11	36S	16E	6000
22G12	Fourmile Lake		9	36S	5E	6000
21G4P	Gerber		12	39S	13E	4850
22G26	Howard Prairie		32	38S	4E	4500
22G16	Hyatt Prairie Reservoir		15	39S	3E	4500
22G15	Lake of the Woods		11	37S	5E	4960
22G5	Park Headquarters		8	31S	6E	6550
20G6MP	Quartz Mountain		2	38S	16E	5320
22G31	Seven Lakes No. 2		26	33S	5E	6200
22G33	Seven Mile		20	33S	6E	5725
20H1a	State Line	(Cal)	21	48N	11E	5750
20G9AP	Strawberry		4	40S	16E	5760
20G2AP	Summer Rim		23	33S	16E	7100
20G13a	Sycan Flat		25	31S	14E	5500
21G3P	Taylor Butte		21	33S	11E	5100

Pacific Power and Light Company's Snow Stations

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
3	Chiloquin (PP&L)		34	34S	7E	4187
4	Crystal (PP&L)		26	34S	6E	4200
5	Fort Klamath (PP&L)		22	33S	7½E	4150
8	Harriman Lodge (PP&L)		3	36S	6E	4200
6	Kirk (PP&L)		1	33S	7E	4533

LAKE COUNTY, GOOSE LAKE WATERSHEDS

Goose Lake

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
20G15a	Bear Flat Meadow		27	36S	19E	5900
20G8MP	Camas Creek		5	39S	21E	5720
20G11A	Cox Flat		16	37S	18E	5750
20H2a	Crowder Flat	(Cal)	30	47N	11E	5200
20H3a	Dismal Swamp	(Cal)	31	48N	16E	7200
20G17a	Paiton Meadow		28	38S	18E	6800
20G6MP	Quartz Mountain		2	38S	16E	5320
20H1a	State Line	(Cal)	21	48N	11E	5750
20G9AP	Strawberry		4	40S	16E	5760
20G16a	Willow Creek		13	40S	21E	6020

Abert Lake

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
20G15a	Bear Flat Meadow		27	36S	19E	5900
20G18ap	Colvin Creek		12	36S	21E	6550
20G11A	Cox Flat		16	37S	18E	5750
20G14a	Finley Corrals		11	36S	16E	6000
20G6MP	Quartz Mountain		2	38S	16E	5320
20G10a	Sherman Valley		15	37S	21E	6600

Summer Lake

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
20G2AP	Summer Rim		23	33S	16E	7100

Silver Lake

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
21F2P	Silver Creek	25 & 26	29S		13E	4900
20G13a	Sycan Flat		25	31S	14E	5500

Warner Lake

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
20G8MP	Camas Creek		5	39S	21E	5720
20H3a	Dismal Swamp	(Cal)	31	48N	16E	7200
19G1a	Hart Mountain		1	36S	25E	6350
20G10a	Sherman Valley		15	37S	21E	6600
20G16a	Willow Creek		13	40S	21E	6020

Guano Lake

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
19H1	Bald Mountain	(Nev)	17	45N	21E	6720
19G1a	Hart Mountain		1	36S	25E	6350
19H4a	Little Bally Mt.	(Nev)	8	45N	19E	6600

HARNEY BASIN WATERSHED (12)

Silvies River - Silver Creek

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
18F7a	Call Meadows		29	20S	33E	5340
19F2	Delintment Lake		28	19S	26E	5600
19F3	Emigrant Butte		14	21S	27E	5000
18F3P	Idlewild Camp		27	20S	31E	5200
19E9P	Izee Summit		28	16S	29E	5293
18F1	Rock Spring		23	18S	32E	5100
19F1*	Snow Mountain		1	19S	26E	6220
19E7M	Starr Ridge		20	15S	31E	5150
18F4P	Stinking Water		34	21S	34E	4800

Donner Und Blitzen River

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
18F6a	Buck Pasture		28	29S	35E	5300
18G2PA	Fish Creek		4	33S	33E	7900
19G1a	Hart Mountain		1	36S	25E	6350
18G1PA	Silvies		35	32S	33E	6900
18G7a	"Y" Lake		31	35 S	32½E	6600

Trout and Whitehorse Creeks

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
18G6a	Oenio Creek		14	41S	34E	6000
18H1	Disaster Peak	(Nev)	8	47N	34E	6500
17G5a	Oregon Canyon		8	40S	40E	6950
18G5a	Trout Creek		10	41S	38E	7800

Harney Lake

NUMBER	NAME	LOCATION	SEC	TWP	RGE	ELEV
18G8a	Buckskin Lake		25	29S	30E	5200

Map and Index to OREGON SNOW COURSES

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE SCS-SCS PORTLAND OREG 1971 M7-0-22026-N

The Following Organizations Cooperate in the Oregon Snow Survey Work

STATE
- Idaho Cooperative Snow Surveys
- Nevada Cooperative Snow Surveys
- Oregon State University
- Oregon State Engineer and Corps of State Watermasters
- Oregon State Highway Engineers
- Soil and Water Conservation Districts of Oregon

COUNTY
- Douglas County Water Resources Survey

FEDERAL
- Department of Agriculture
  - Cooperative Extension Service
  - Forest Service
  - Soil Conservation Service
- Department of Commerce
  - NOAA, National Weather Service
- Department of the Interior
  - Bonneville Power Administration
  - Bureau of Land Management
  - Bureau of Reclamation
  - Fish and Wildlife Service
  - Geological Survey
  - National Park Service
- Department of National Defense
  - Corps of Army Engineers

PUBLIC UTILITIES
- Pacific Power and Light Company
- Portland General Electric Company
- California-Pacific Utilities Company

MUNICIPALITIES
- City of Baker
- City of La Grande
- City of The Dalles
- City of Walla Walla

IRRIGATION DISTRICTS
- Arnold Irrigation District
- Associated Ditch Companies
- Burnt River Irrigation District
- Central Oregon Irrigation District
- East Fork Irrigation District
- Grants Pass Irrigation District
- Hood River Irrigation District
- Jordan Valley Irrigation District
- Juniper Flat Irrigation District
- Lakeview Water Users, Incorporated
- Medford Irrigation District
- Middle Fork Irrigation District
- North Board of Control - Owyhee Project
- North Unit Irrigation District
- Ochoco Irrigation District
- Rogue River Valley Irrigation District
- South Board of Control - Owyhee Project
- Squaw Creek Irrigation District
- Talent Irrigation District
- Tumalo Project
- Vale-Oregon Irrigation District
- Warmsprings Irrigation District

PRIVATE ORGANIZATIONS
- The Crag Rats, Hood River, Oregon

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
1218 S.W. WASHINGTON ST.
PORTLAND, OREGON 97205

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